



KIP 3000  
User Guide



Version C.1

Thank you for purchasing the KIP3000 Multi-Function Printer.

This USER'S MANUAL contains functional and operational explanations for the KIP3000.  
Please read this USER'S MANUAL carefully before using the Printer.  
Please keep this USER'S MANUAL for future reference.

1. When this product is installed in North America.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. When this product is installed in Europe

This equipment complies with the requirements in Pub.22 of CISPR Rules for a Class B computing device.

Operation of this equipment in a residential area may cause unacceptable interference to radio and TV reception requiring the operator to take whatever steps are necessary to correct the interference.

**Do not install Machine around other electronic equipment or other precision instruments.  
Other devices may be effected by electrical noise during operation.**

**If the Machine is installed near other electronic equipment, such as a TV or a radio,  
interference to said equipment, such as noise or flickering, may occur.  
Use a separate power line and install the PRINTER as far as possible from said equipment.**

As an ENERGY STAR® Partner, Katsuragawa Electric Co., Ltd. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



The International ENERGY STAR® Office Equipment Program is an international program that promotes energy saving through the penetration of energy efficient computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment such as computers, monitors, printers, facsimiles, copiers, scanners, and multifunction devices. Their standards and logos are uniform among participating nations.

The symbol shown indicates that this product conforms to Directive 2002/96/EC of the European Parliament and the council of 27 January 2003 on waste electrical and electronic equipment (WEEE) and does not apply to countries outside of EU.



Only For EU Member States

## Safety Warnings

The following warnings are very important in order to safely use this product.  
These notes are important in preventing danger to the operator or operation of the printer.

The following symbols are found throughout the USER'S Manual and have the following meaning:



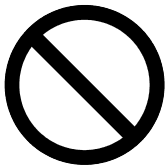
### WARNING

This WARNING mark means that there is a possibility of death or serious injury if you ignore or do not follow the said instruction.



### CAUTION

This CAUTION mark means that there is a possibility of injury or physical damage if you ignore or do not follow the said instruction.



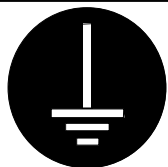
When marked with this symbol, "DO NOT ATTEMPT"



When marked with this symbol, "pay close attention to"



# WARNING



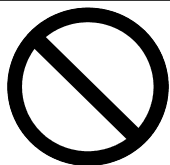
Ground the product with a correct ground source or you may be electrically shocked.



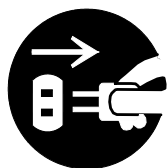
1. The Power source should be as follows:  
In U.S.A. : 120V plus6% or minus10%, 50/60Hz, 15A or higher  
In Europe : 220-240V plus6% or minus10%, 50/60Hz, 10A or higher
2. Use a circuit with a dedicated breaker.
3. Install the product as close to the wall outlet as possible.
4. If you wish to move the printer, please contact your service personnel.



1. Do not remove the screw and do not open the cover if not instructed to do so in this User's Manual. If you ignore this warning, you may be burnt or receive an electric shock due to a hot item or electrically charged part inside of the printer.
2. Do not disassemble or tamper with the printer.  
It may result in a fire or an electrical shock.



1. Do not plug in the printer into a multi-wire connector in which some other equipment is plugged into.  
It may cause a fire due to outlet overheating.
2. Do not damage the Power Cord by stepping on or placing heavy items on it.  
If the Power Cord is damaged, it may cause a fire or you may receive an electric shock. **REPLACE THE CORD IF DAMAGED!**



1. Do not put a flower vase, a flowerpot or any water-filled item on the product.  
Spilt water could cause a fire or an electric shock.
2. If the product generates an abnormal smell or noise, turn it off and unplug it from the wall electrical outlet immediately.



Do not throw the toner into a fire or other sources of heat, as it can explode.

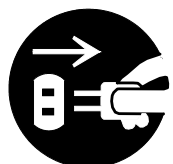




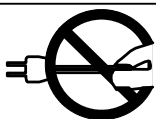
# CAUTION



Do not install the printer in a humidified room or a dusty room.  
Also, do not install the printer on an unstable floor as injuries may occur.



1. Unplug the printer before you move it.  
The power cord may be damaged and it may result in a fire or electric shock.
2. If you do not use the printer for a long duration (holidays, company shutdown) turn off and unplug the printer from the outlet for safety.



Do not pull the cord when you unplug the printer as you may damage the Power Cord.



There are hot items inside of the printer.  
Take great care not to touch these items when you remove mis-fed media.



Ventilate the room well if you print in a small area.

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## Section 1

# Basic Printer Functions

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# 1. 1 Installation Requirements

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The following conditions are required for the installation of the equipment.



1. Power source should be rated as:  
120V +6% or -10%, 50/60Hz, 15A or higher
2. The equipment must be on a dedicated circuit.
3. The outlet must be near the equipment and easily accessible.



1. Make sure to connect this equipment to a properly grounded outlet.
2. The outlet shall be installed near the equipment and shall be easily accessible.

## Site Environmental Conditions

Temperature Range

10 C to 30 C

50 F to 86 F

Humidity Range

20% to 85% RH. (NON CONDENSING)

Keep the printer away from water sources, boilers, humidifiers or refrigerators.

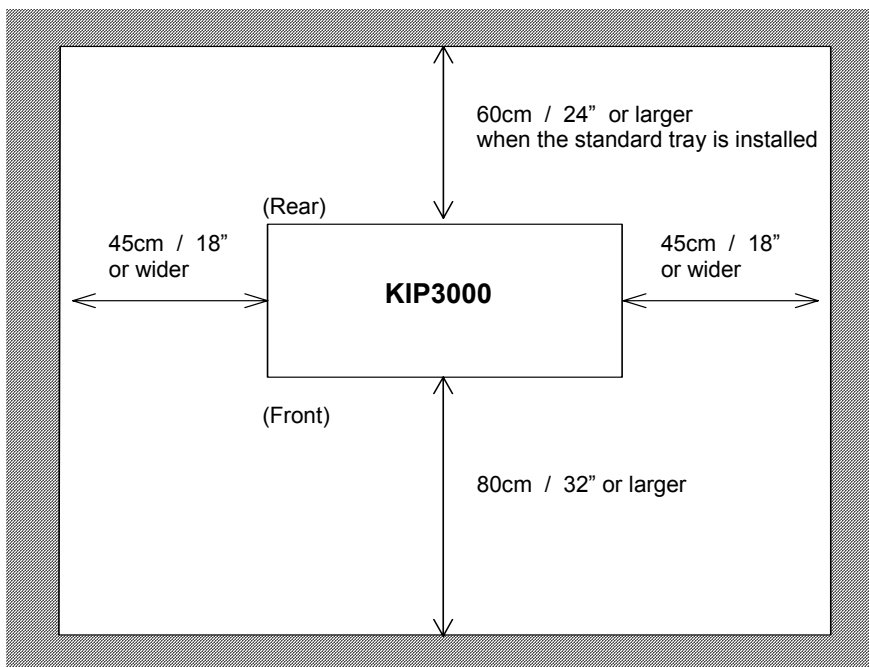


1. The installation site must not have any open flames, dust or ammonia gases.
2. The equipment must not be exposed to the air vents from heating/cooling systems.
3. The equipment should not be exposed to the direct sunlight.  
Please draw curtains to block any sunlight.  
When you open the printer (Upper Half), do not expose the Photoconductive Drum to strong (intense) light as this will damage the Drum.



Ozone will be generated while this equipment is in use, although the quantity generated is within all safe levels. (see certifications) Ventilate the room, if so required.

Keep ample space around the equipment to ensure comfortable operation.  
(Refer to the following figure.) The floor must be level and the strength must be ample to sustain the weight of the equipment.



## 1. 2 Prohibited Originals

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To duplicate or copy any type of document is not permitted! It may be illegal if you possess copies of certain types of documents. We recommend you investigate if you have the legal right to copy / scan a document prior to performing these functions.

### Originals prohibited from copying / scanning (by law)

1. You cannot duplicate/copy Currency (Bill, Money, Bank Note, etc.), Government issued Negotiable Instruments (National Bonds, Security, Local Debt Bonds, etc.).
2. You cannot duplicate/copy Foreign Currency or Foreign Negotiable Instruments.
3. You cannot duplicate/copy unused postal stamps or government postcards without permission to replicate from the Government.
4. You cannot duplicate/copy Government issued revenue stamps or certificate stamps, which are issued by Liquor Tax Acts or the Commodity Tax Acts.

### Other Notable Items

1. You are warned by the government not to copy / scan, private issued securities (stock certificate, draft, check, goods ticket, etc.), commutation ticket or book of tickets, excluding that some specific companies can copy such originals it requires for its own business.
2. We recommend you not freely copy / scan government issued passports, public or private issued licenses, automobile inspection certifications, ID and tickets (passes or meal).

Law To Reference	Items Prohibited to Duplicate
Regulations to control fake currency and bonds.	Currency (Bill, Money, Bank Note, etc.), Government issued Negotiable Instruments (National Bonds, Security, Local Debt Bonds, etc.)
Control Law against Forged or Fake Foreign Currency, Bill, Bank Note and Bond	Foreign Currency or Foreign Negotiable Instruments
Forged postal stamps control law	Unused postal stamps or government postcards
Forged revenue stamp control law	Government issued revenue stamps, and certificate stamps prescribed by Liquor Tax Act or Commodity Tax Act
Currency similarity securities Control Law	Private issued securities (stock, draft, check, goods ticket, etc.), commutation or book tickets

### Originals protected by Copyright

It is prohibited to copy / scan:

books, music, paintings, maps, drawings, movie and pictures which are protected by copyright.

## 1.3 Key Features

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The KIP 3000 is a single footprint Multi-Function Printer which can copy, scan and print. Advanced drivers and comprehensive print utilities make the KIP 3000 an advanced, easy to use system. (some functions may be optional)

The scan and print speeds are up to 60mm/sec or up to 4 landscape “D” prints/minute.

KIP HDP technology generates no waste toner.

The combination of the KIP HDP Plus imaging system with mono-component minute toner produces high definition lines, distinctive greyscale and consistent blacks.

The maximum paper width is 914mm or 36” wide, and the minimum is 279mm or 11”. The maximum paper length is 3.6m or 11.8’ (with 36” paper), and the minimum is 210mm or 8.5”.

Up to 600dpi print and scan resolutions, with an advanced Image Process System, produces the highest quality images.

### Copier Features

- Easy Touch screen control panel
- Collated Sets copying
- Real-time image preview
- Recall/reprint previous jobs
- 600x600DPI copy quality
- Integrated Accounting and Reports for all copying, network printing, scanning
- Network ready copier
- Simple Operator assistance for every day tasks (toner replacement procedure)
- Image stamping
- All hardware/software included for instant upgrade from Digital Copier to Network Printer to Scan-to-File system.
- Information center displays all support information, meter readings, and serial number.
- Color Copy to third party inkjet is optional

### Network Printer Features (Optional)

- Standard TCP/IP connectivity
- Direct support for vector file formats: HPGL1/2, HP-RTL, Calcomp 906/907
- KIP 3000 DWF format support
- Direct support for raster file formats: TIF Group 3/4, Cals Group 4, Uncompressed Grayscale/Color TIF,
- Optional KIP 3000 PDF format support: PS/PDF file format.
- Standard Windows Driver for KIP Script (PS output) and KIP-GL (HPGL/2,RTL output)
- Standard AutoCAD Drivers
- Unlimited site license of KIP Request allows users to group supported formats together for printing collated sets.
- Integrated Accounting in all KIP Drivers/Request for all network printing.
- Integrated KIP 3000 Web Printing (web server)
- Open architecture ASCII Job Ticket for third party applications

### Scan-to-File Features

- Scan directly to PDF, TIF Group 4, Cals Group 4
- Scan to file to FTP or personal inbox on the KIP 3000
- Selected resolution – up to 600 DPI optical
- Automatic original size recognition
- Retrieve scanned image files with KIP Request
- Color scanning is optional

# 1. 4 Specifications


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## General

Subject	Specification
Model	KIP3000
Configuration	Console
Maximum power consumption	1500W (Including Scanner & IPS)
Acoustic noise	Idling ..... Max. 52db Printing ..... Max. 60db Impulse sound ..... Max. 65db
Ozone	Max. 0.1ppm (Measurement method under UL Standard)
Dimensions	1244mm (W) x 600mm (D) x 1100mm (H) or 50" x 24" x 44" (Operation Panel is not included in these dimensions)
Weight	210 kg or 462 lbs (1 roll) 217 kg or 478 lbs (2 roll)
Environmental condition for usage	Temperature: 10 to 32 Centigrade or 50 to 86 Fahrenheit Humidity: 20 to 85% RH
Input power	In U.S.A. : 120V plus/minus 10%, 50/60Hz, 10A In Europe : 220-240V plus 6% or minus 10%, 50/60Hz, 6A

**NOTE : specifications subject to change without notice**

## Printer

Subject	Specification
Model	KIP 3000
Configuration	Console – Single Footprint
Printing method	LED Array Electro-Photography
Photoreceptor	Organic Photoconductive Drum
Print speed	60mm per second (Metric) ..... 2 A0 / minute (Inch) ..... 2 E or 4 D Landscape / minute
Print head	LED Array – Calibrated
Resolution	600dpi x 600dpi
Print width	Maximum ..... 914mm or 36" Minimum ..... 279mm or 11"
Print length	Maximum (Standard) ..... 3.6m or 11.8' (Option) ..... 24m or 75' Minimum ..... 210mm or 8.5" <div style="border: 1px solid black; padding: 10px; margin-top: 10px;">  <b>NOTE</b>  <p>If the page is longer than 3.6m, image quality, function and reliability are not guaranteed.</p> </div>
Warm up time	Less than 5
First print time	24 seconds (D Landscape) 32 seconds (E)
Fusing method	Heat - Pressure Rollers
Development method	Dry, non-magnetic mono-component toner
Media	Plain Paper ..... 64 to 80g/m <sup>2</sup> - US Bond (20lbs) Tracing Paper ..... US Vellum (20lbs) Film ..... 4 MIL Recommend media for electro-photography process
Storage of consumables	Store toner from 0 to 35 C ( 32 to 95 F ) and within the humidity range from 10 to 85% RH.

**NOTE : specifications subject to change without notice**



## Scanner

Subject	Specification
Scanning method	Contact Image Sensor (CIS) (5 – A4)
Light source	LED
Setting of original	Face up
Starting point of scan	Center
Scan width	Max. : 914.4mm or 36" Min. : 275.0mm or 11"
Transportable original width	Max. : 932.2mm or 36.7" Min. : 275.0mm or 11"
Scan length	Max. : 3.6m or 19.7' (Including the margin area) Min. : 210mm or 8.5" (Including the margin area)
Margin area	3mm from leading edge and trailing edge
Optical resolution	600dpi
Digital resolution	Max. : 600dpi Min. : 100dpi
Original transportation	Sheet through type
Transportable original thickness	Max. : 0.65mm Min. : 0.05mm

**NOTE : specifications subject to change without notice**

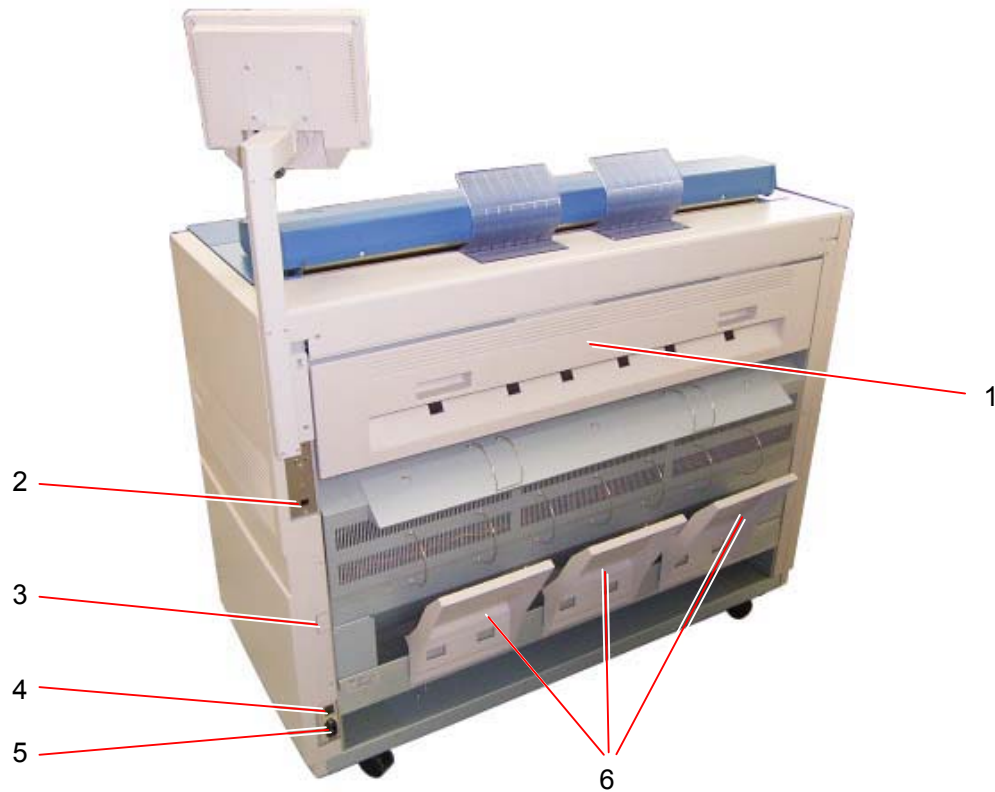
## 1. 5 Exterior Views

### 1. 5. 1 Front view



No.	Name	Function
1	Main Switch	Turns on / off the KIP 3000.
2	Original Guides	Assists the user to feed originals into the scanner.
3	User Interface	Operation Panel, with many user operations.
4	Emergency Stop Button	Press this button when you would like to stop copying or scanning in an emergency situation.
5	Original Return Guides	Guides return the originals to the user.
6	Scanner	Images the original for all scans or copies.
7	Original Table	Open this cover to replace the Toner Cartridge. Place the original to feed into the Scanner to make a scan or copy.
8	Engine Unit Levers	Press up on the handles to open the printer engine.
9	Cut Sheet - Bypass	Feeds a sheet of cut sheet media.
10	Roll Deck	Roll media installed here. 1 Roll - standard 2 Rolls - optional.
11	Print Tray	Copies / prints are placed here. (standard configuration) Optional Stacking / Folding devices are available
12	Counter	Counts the total amount printed. (also see Operational Panel - Info Screen)

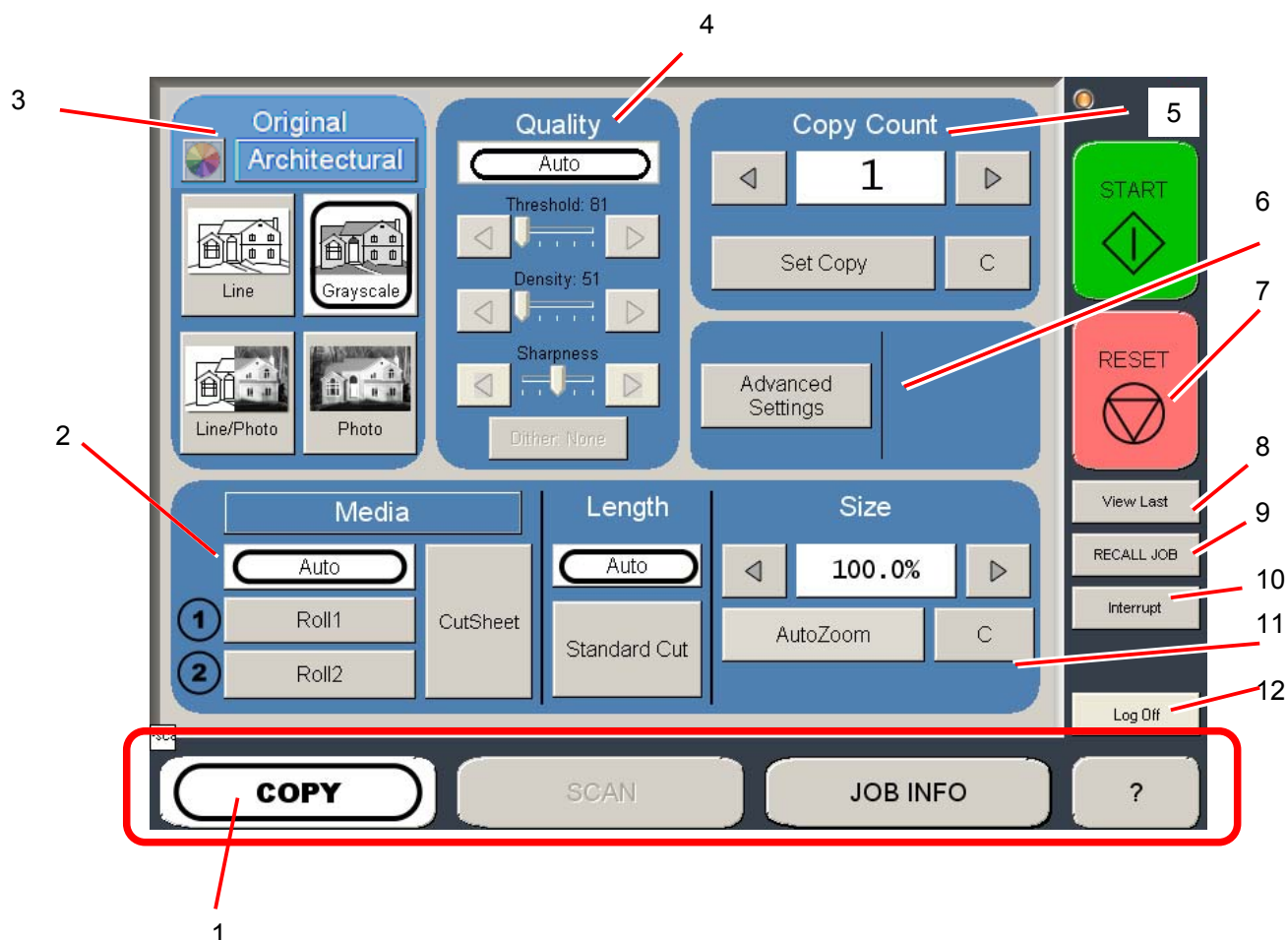
## 1. 5. 2 Rear view



No.	Name	Function
1	Exit Cover	Open the Exit Cover when you remove the paper mis-fed inside of the Fuser Unit.
2	LAN Port	Connect the LAN Cable here to connect the KIP3000 to the network. (Do not connect a telephone line.) <b>Note:</b> There may also be a serial port in this area for folder connection ( optional device )
3	Dehumidify Heater Switch (Option)	Turn on the Dehumidify Heater with this switch when you would like to dry the paper in the humid season.
4	Inlet Socket	Connect the Power Cord here.
5	Breaker	It is possible to shut off supplying the AC power.
6	Print Guide Trays	These trays guide the prints to the Print Tray.

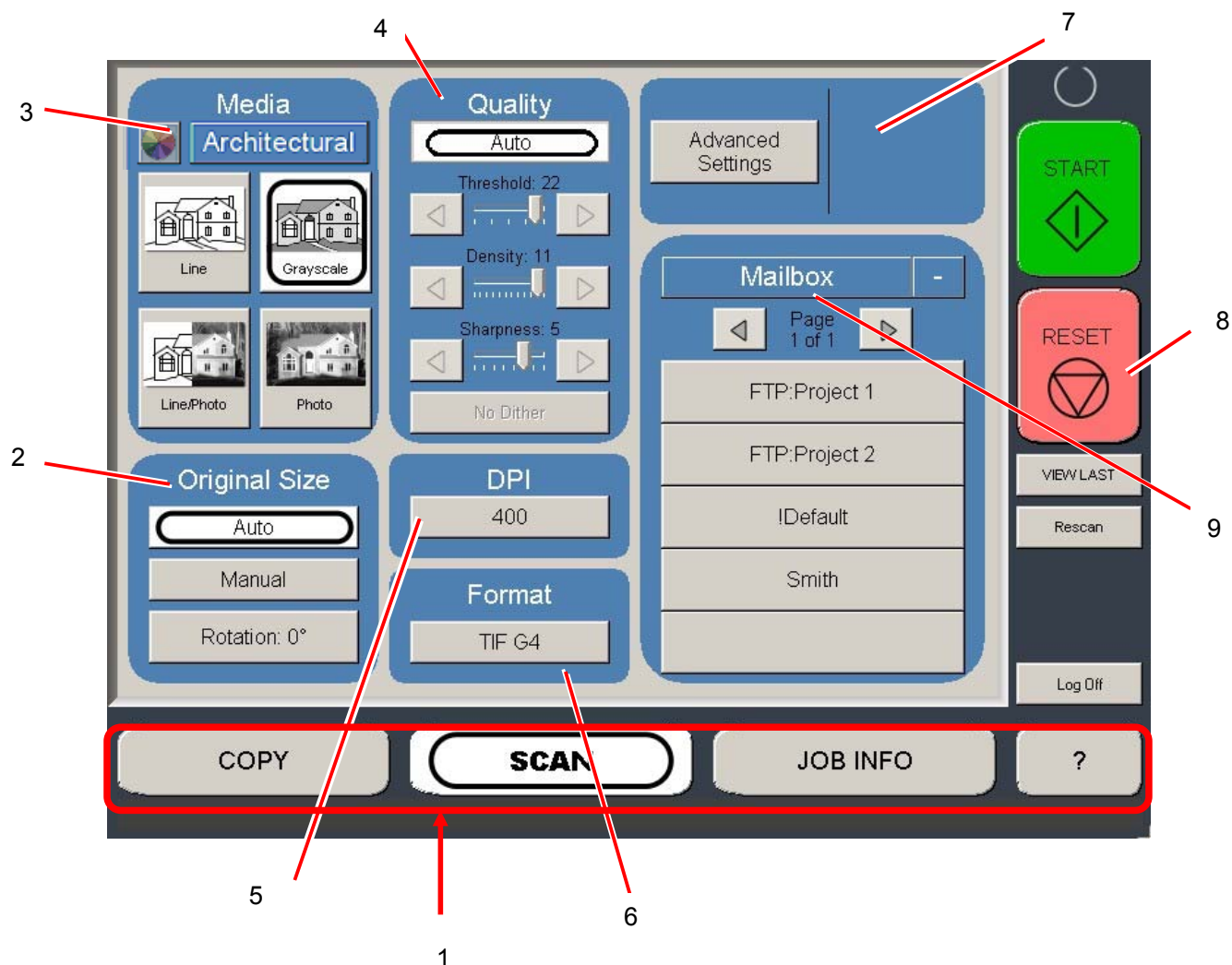
## 1. 5. 3 Operator Panel

### Copy Mode



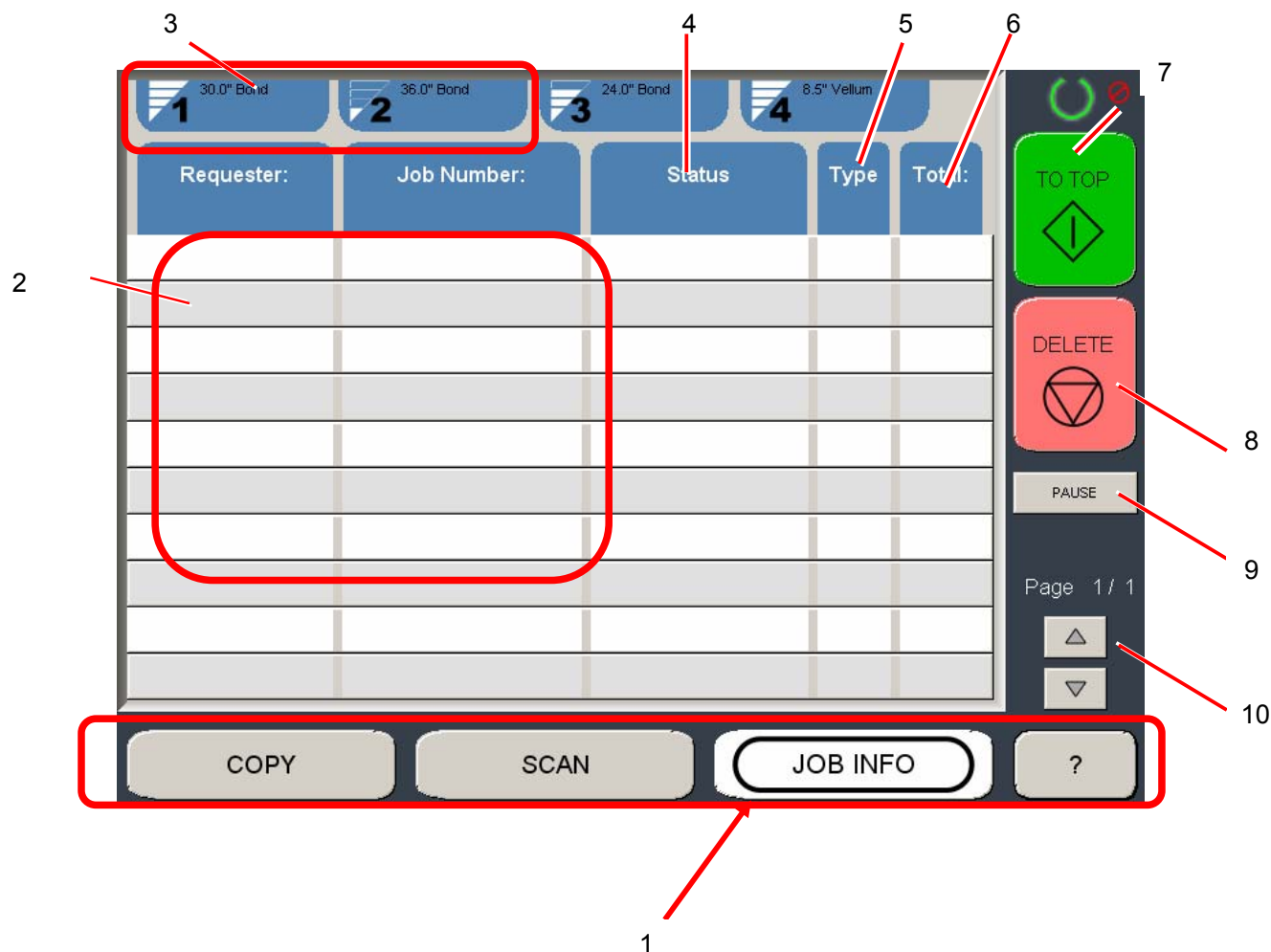
No.	Name	Function
1	Mode	Selects the "Mode" of the system. (Copy Mode for this screen shown)
2	Media	Displays Media type and quantity installed. Includes Cut Sheet Functions and Media Selection
3	Original Type	User Selects the type of original to copy. Also select Eng/Arch Modes here. (Color Copy is selected here if enabled)
4	Quality	Select Auto or Manual Image adjustments
5	Copy Count	Select the quantity of prints and sets designation.
6	Advanced Settings	Invert , mirror, stamps, folds, and edge adjustments preformed / displayed in this button (sub screen)
7	Reset	Clears the image buffer and resets the system to default settings.
8	View Last	The last scan / job can be viewed
9	Recall Job	Images can be recalled from the last job for reprint. Please note that a time limit may be set to recall or this feature may be disabled by the administrator to prevent any unauthorized copies.
10	Interrupt	Pauses the network print jobs to print any copy jobs
11	Zoom	Manual and automatic zoom ratios set.
12	Log Off	Log off current user if Accounting enabled

## Scan Mode



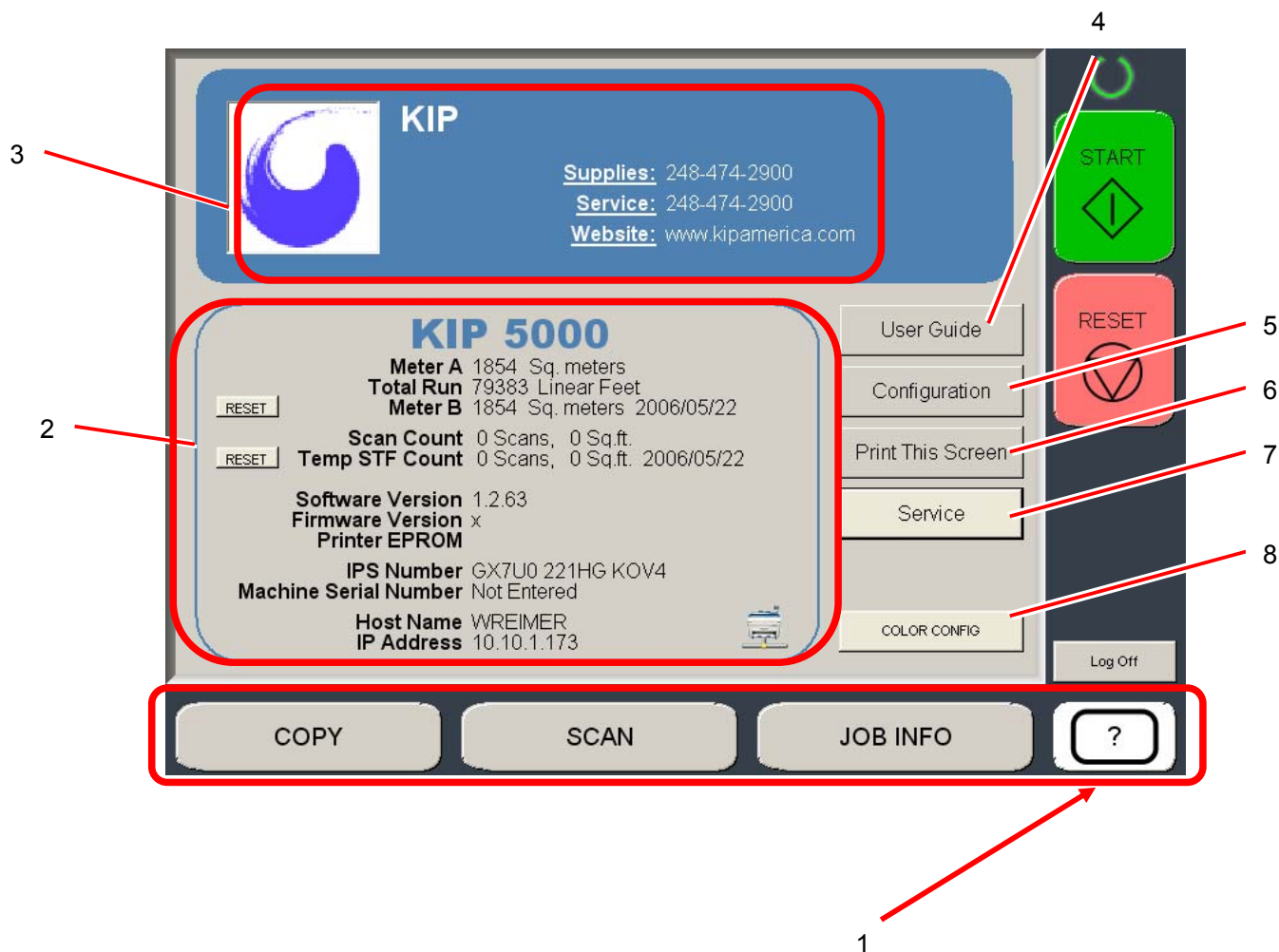
No.	Name	Function
1	Mode	Selects the "Mode" of the system. (Scan Mode for this screen shown)
2	Original Size	Use automatic settings or manually set width, length and rotation of the images.
3	Original Type	User Selects the type of original to copy. Also select Eng/Arch Mode selected here. (Color Scan is selected here if enabled)
4	Quality	Select Auto or Manual Image adjustments
5	Resolution	Scroll through image resolution (DPI) of the scanner.
6	Format	Scroll through file formats.
7	Advanced Settings	Invert, mirror, stamps, and edge adjustments preformed / displayed in this button (sub screen)
8	Reset	Resets the system to default settings.
9	Mailbox	Select where the image will be stored after the scan (local setting, FTP etc.).

## Job Info Screen



No.	Name	Function
1	Mode	Selects the "Mode" of the system. (Job Mode for this screen shown)
2	User Name – Job #	Display the User and any user info of the job ID. A job can be selected for other functions noted below.
3	Media Information	Displays Width, Type and amount remaining per roll deck
4	Status	Shows the current status of a job and media selection.
5	Type	Displays a copy or network print job
6	Total	Displays the total number of prints and current number printed.
7	To Top	After a job is selected (see #2) the position can be changed to the next job printed.
8	Pause	Pauses printer to allow media change, etc
9	Delete	After a job is selected (see #2) it can be removed from printing.
10	Up/Down	Scrolls through pages in the queue if so available.

## Information / Help Screen



No.	Name	Function
1	Mode	Selects the "Mode" of the system. (Info/Help Mode for this screen shown)
2	Meter – Versions	Display the current meter counts as well as all Software/Firmware versions, IPS number, Host Name/IP (The area may vary depending on KIP printer model)
3	KIP Contact	Shows the contact information for the KIP Service and KIP Supplies provider.
4	User Guide	User Guides for details on system functions and operations.
5	Configurations	Allows user "set up" of the system.
6	Print This Screen	Allows the current screen with version and counter values to be printed on the KIP printer.
7	Service	Allows advanced "set up" of the system. Usually for technical purposes only. Pass-code required.
8	Color Config	Configures the optional color scan and color copy features.



## 1. 6 Options - Accessories

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Please contact your Authorized Reseller for the following options available for the KIP 3000:

**1) Network Printing**

Adds the functions of network printing (TCP/IP) from Windows and CAD applications. Includes Windows/PS drivers, AutoDesk Drivers, "Request" job submission utility and "KIP PrintNet" for web based submissions.

**2) Color Copy to Inkjet**

Allows color copy to a third party wide format inkjet device.

**3) Monochrome Scanning**

Adds the function of scan to file, local IPS drive, local LAN PCs or FTP sites in a variety of file formats.

**4) Color Scanning**

Scan to file in color to a local IPS drive, local LAN PCs or FTP sites in a variety of file formats.

**5) PDF / PS Printing**

Allows direct PDF and Postscript file format printing from various applications including KIP Request.

**6) Roll Deck 2**

Second roll of media for increased productivity

**7) Print Tray - Slant Stacker - Vertical Stacker**

To accommodate a larger quantity of prints than the standard front feeding print tray, rearward stacking systems are available for the KIP 3000.

**8) Folding (KIPFold)**

Fan and crossfold function for copies and network prints.

**9) Dehumidifier**

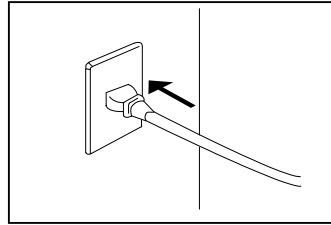
Roll Deck Dehumidifier for locations with excess or high humidity

All KIP 3000 options and accessories are subject to change without notice. Please contact your local Authorized Reseller for details on current available options for the KIP 3000.



## 2.1 Turning on the KIP 3000

1. Ensure the KIP 3000 is plugged into a dedicated wall outlet.



### WARNING

- (1) Do not handle the Power Plug with wet hands, or you may receive an electrical shock.
- (2) Make sure to ground the machine for your safety.
- (3) Do not plug the printer into a multi-plug connector in which other devices are plugged into. It may overheat the outlet and may result in a fire.
- (4) The outlet must comply with 120V, plus 6% & minus 10%, 15A, and 50/60Hz

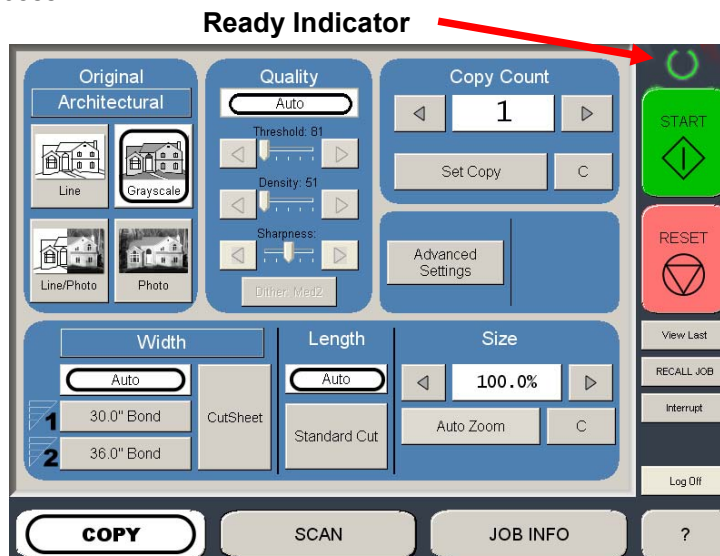
2. There is a Power Switch on the right side of KIP3000.

Switch to the “I” position to turn on the KIP3000.



**Power Switch**

3. The Operation Panel commences to operate, and the Copy Mode Screen will appear in approximately 1 minute. A Ready Indicator on the Copy Mode Screen will flash during the warm up process.



4. When the Ready Indicator stops flashing, the KIP 3000 is ready to copy/scan/print.

## 2. 2 Turning off the KIP 3000

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1. There is a Power Switch on the right side of KIP3000.

Switch to the “ O ” position to turn off the KIP 3000.



**Power Switch**



### **CAUTION**

The KIP3000 print engine and UI look to be shut down when you turn off KIP3000, the controller PC embedded inside of KIP3000 is still operating for shutdown in approximately two minutes after Power Switch operation.

Do not unplug the KIP3000 before the controller PC's shutdown. Doing so may damage data or the device.

## 2. 3 Roll Media Replacement

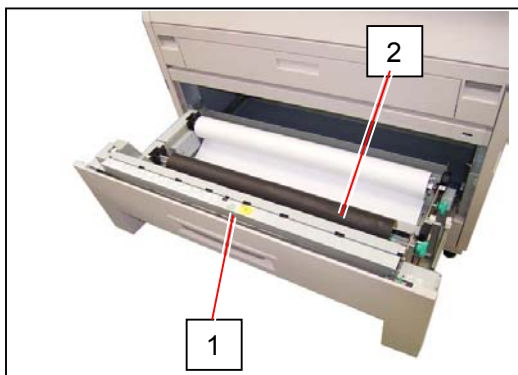
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### **NOTE**

A paper mis-feed may occur as a roll of media is spend.

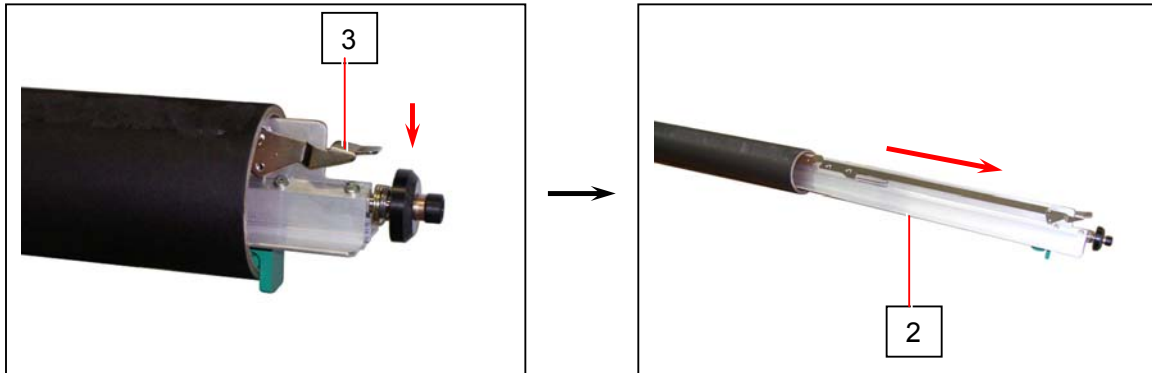
1. Open the Roll Deck (1).  
Remove the Roll Spool (2) with paper core from the Roll Deck.



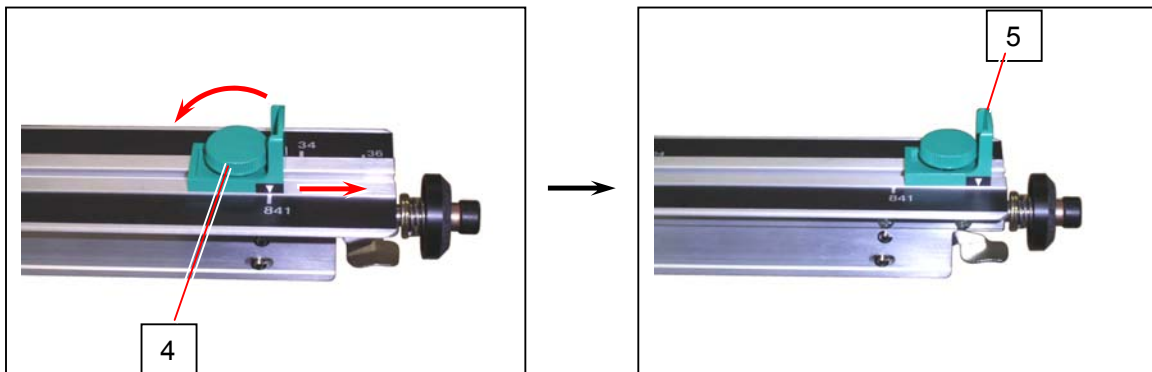
## **! NOTE**

Please confirm that the machine has finished the printing completely before opening the Roll Deck. If you open the deck while its is still printing, a paper mis-feed will occur.

2. Press down the Lever (3) to release the paper core, and then pull out the Roll Spool (2) from the paper core.

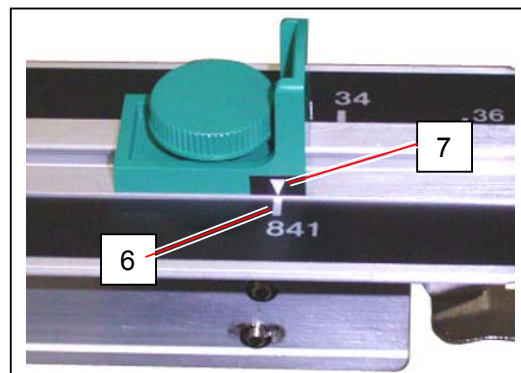


3. Loosen the knob (4), slide the position of Paper Guide (5) according to the width of roll paper you will set the Paper Guide (5) tightening the knob (4).

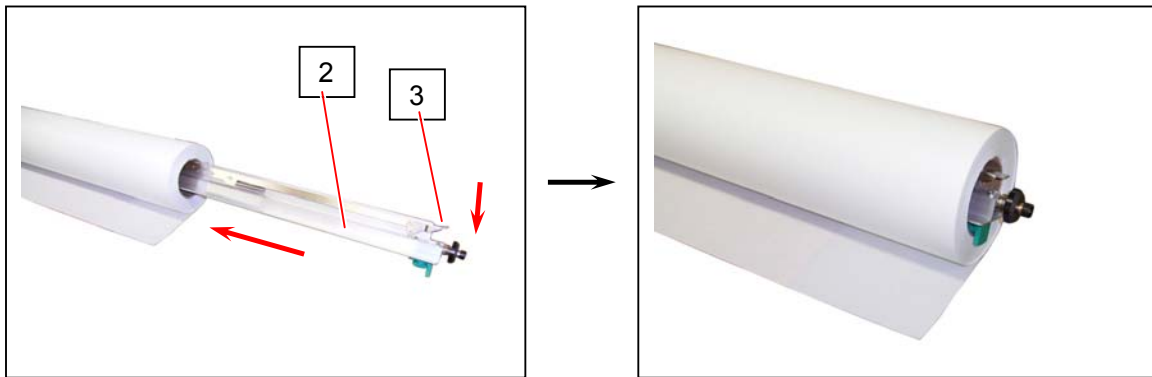


## **! NOTE**

There are Size Guides (6) on the Roll Spool. As the Paper Guide is provided with the triangle mark (7), place the Paper Guide so that the triangle meets the line of Size Guide.



4. Pressing down on the Lever (3), insert the Roll Spool (2) to the core of new roll paper.



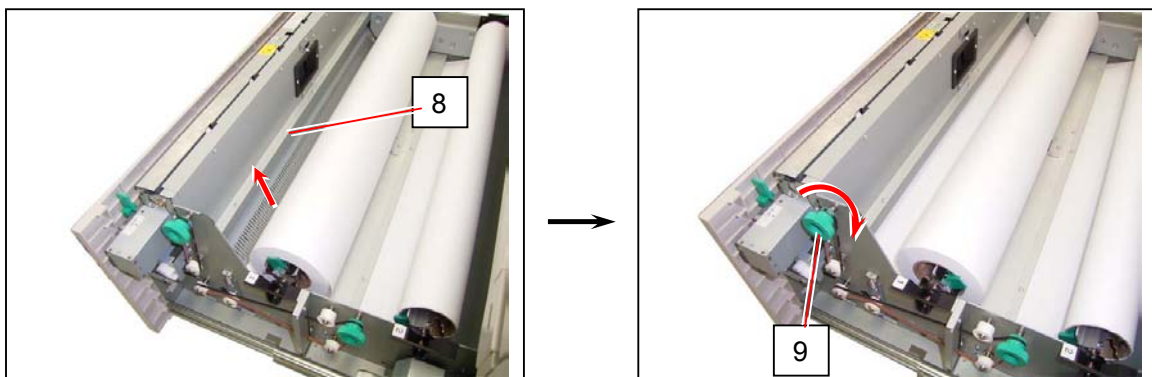
**! NOTE**

Be careful of the winding direction of the roll paper at this time.

5. Install the Roll Spool with new roll paper to the Roll Deck.

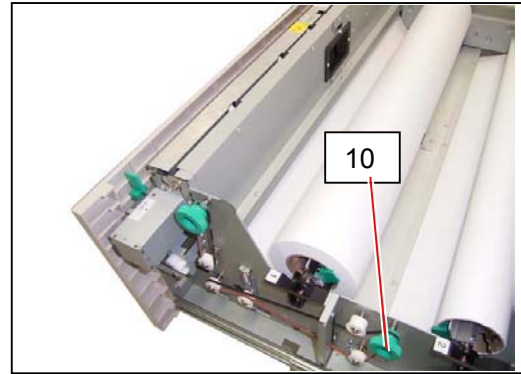


6. Insert the leading edge of roll paper under the Guide Plate (8) until the edge touches the feeding roller. Then rotate the Paper Feeding Knob (9) clockwise so that the feeding rollers catch the roll paper.

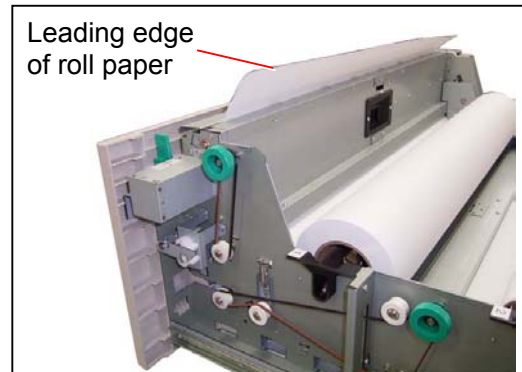
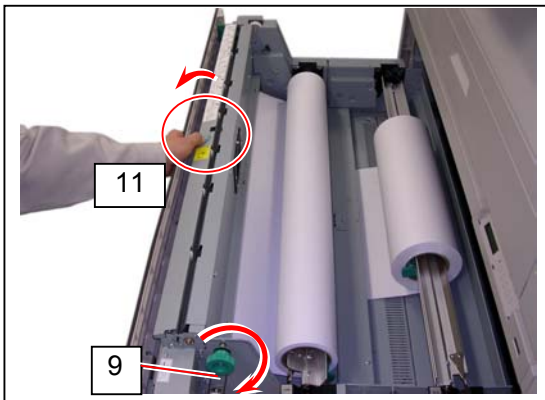


## **! NOTE**

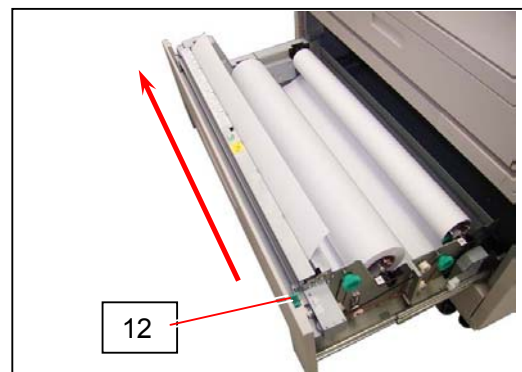
For Roll 2, rotate the Paper Feeding Knob on the rear side (10).



7. When the feeding rollers catch the paper, pull the middle of the Guide Plate 6 (11) out. Rotate the Paper Feeding Knob (9) again until the leading edge comes out in 8".



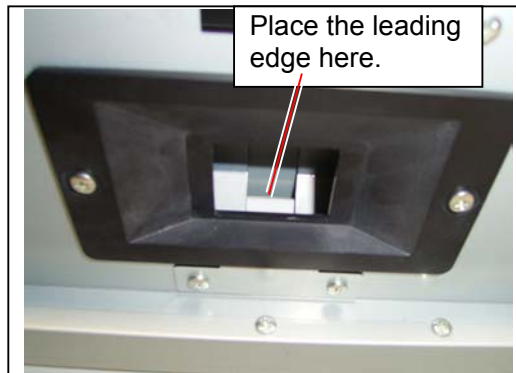
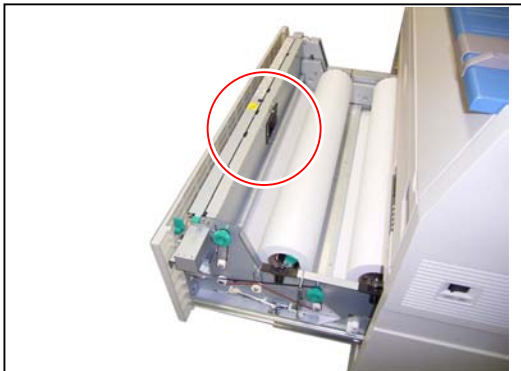
8. Slide the Cutter Knob (12) fully from one side to another side to cut the leading edge. Remove the paper portion.



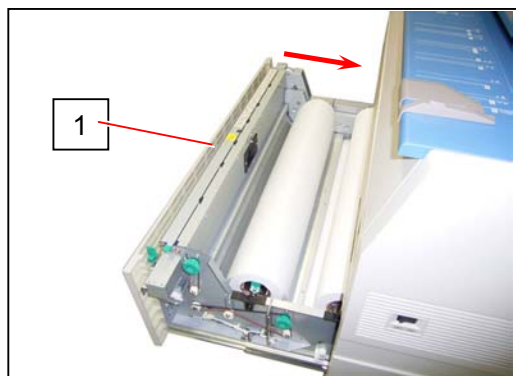
## **! NOTE**

Slide the Cutter Knob completely until it is stopped at the right or left end. If not, a paper jam may occur.

9. Rewind the roll paper to place the leading edge as the following photo.



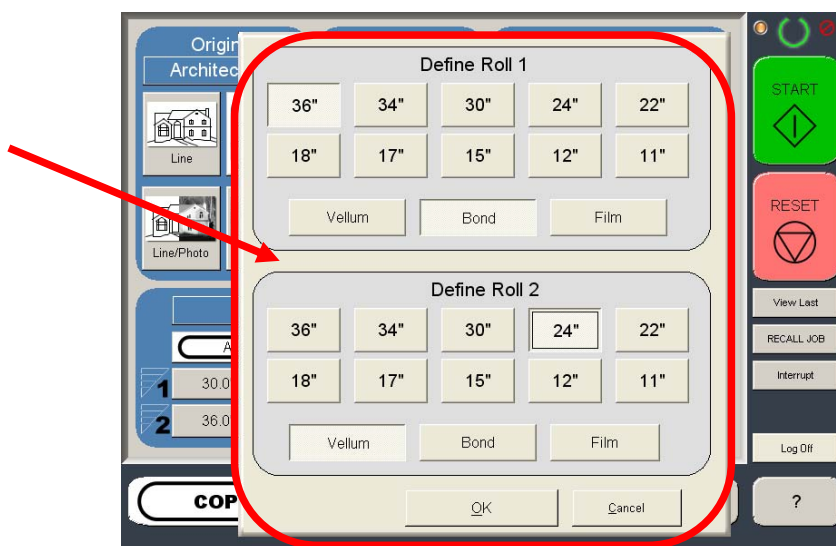
10. Close the Roll Deck (1).



## NOTE

Be sure to close the Roll Deck fully until it is locked at the correct position.  
A paper jam may occur if it is not locked firmly.

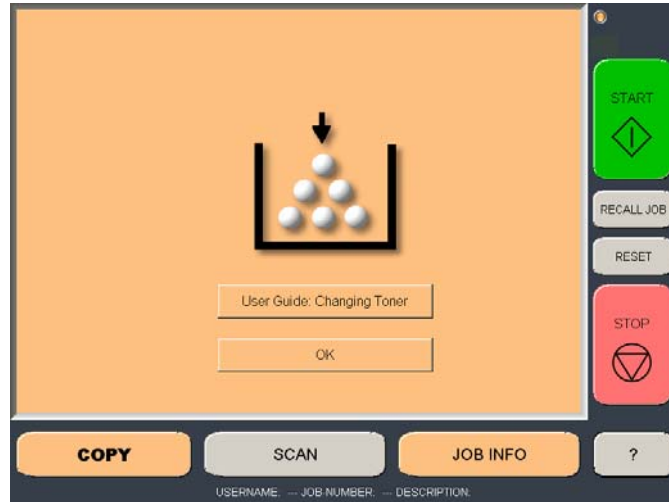
11. On the Operator Panel, a screen will automatically appear after the deck is closed to define the media width and type. Please select the width, and type for each roll deck and then select the "OK" button to confirm the selection.





## 2. 4 Toner Installation

When toner installation is required, the Operator Panel will display a “Toner Required” screen (in the “Copy” and “Job Info” Screens)

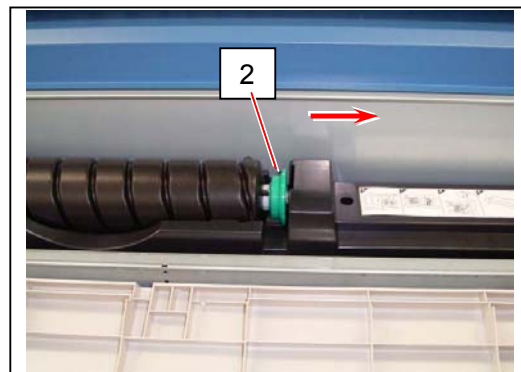


To replace the toner cartridge, please follow these steps:  
Please note that the replacement procedure can also be displayed on the Operator Panel for easier access, by pressing “User Guide : Changing Toner” on the screen)

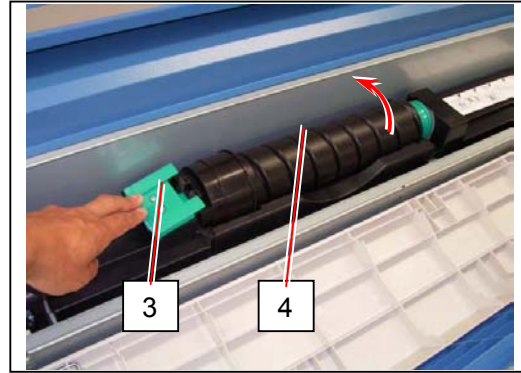
1. Open the Toner Hatch (1).



2. Slide the green Lever (2) to the right to unlock the Toner Cartridge.  
(Lever (2) is held automatically.)



3. Pressing down the Cartridge Lock Lever (3), rotate the body (4) of cartridge to the arrow direction a few revolutions until it stops. You will “close” the toner supplying hole of the cartridge.

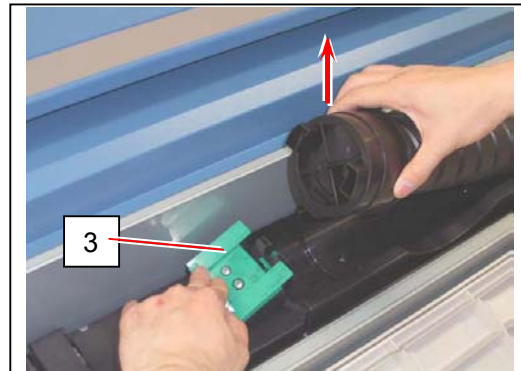


### **! NOTE**

The toner may drop from the toner supplying hole, and it may scattered into the machine or on the floor if you remove the Toner Cartridge without closing the toner supplying hole (5).



4. Pressing down the Cartridge Lock Lever (3), bring up the left side of the Toner Cartridge first , and then remove the whole cartridge from the machine.

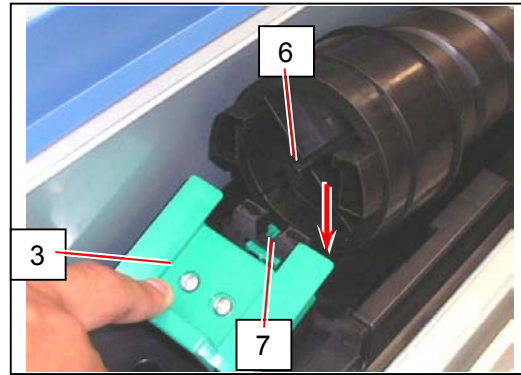


5. Shake the new Toner Cartridge several times left and right to make the toner smooth.





6. There is a pin (6) on the left side of cartridge, and there is a groove (7) on the machine side. Pressing down the Cartridge Lock Lever (3), fit the pin (6) to the groove (7).



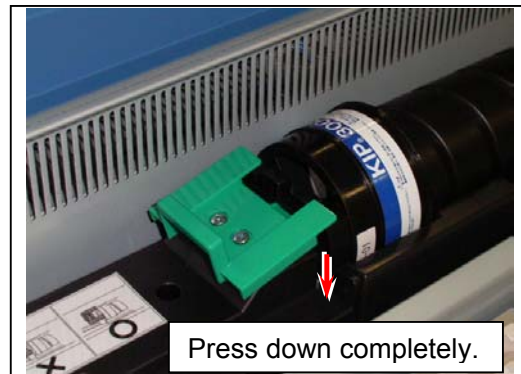
### ! NOTE

Please confirm that the Cartridge Lock Lever (3) firmly locks the Toner Cartridge at the correct position.

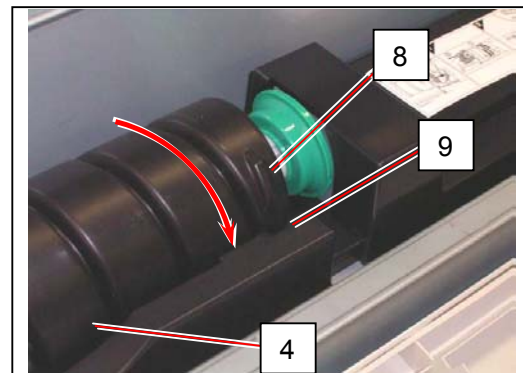
Good



No good

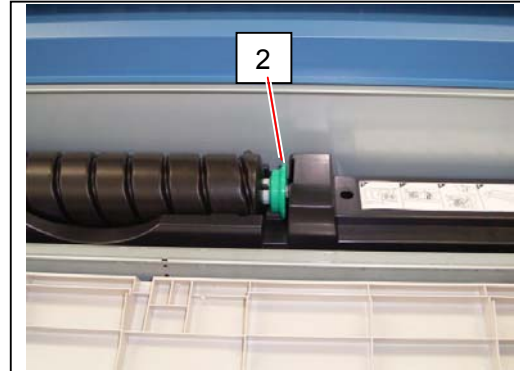


7. Rotate the body (3) of the cartridge to the arrow direction a few revolutions to open the toner supplying hole. Confirm that the projection (8) if fitted into the notch (9).

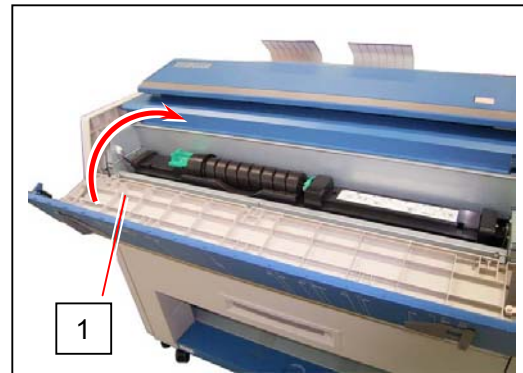


## ! NOTE

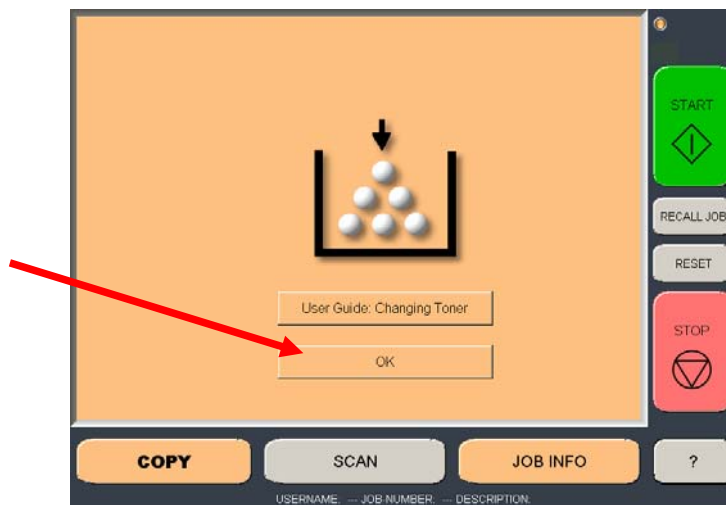
It is not necessary to lock the cartridge with the Lever (2).  
It rotates and locks the cartridge with closed the Toner Hatch.



8. Close the Toner Hatch (1).

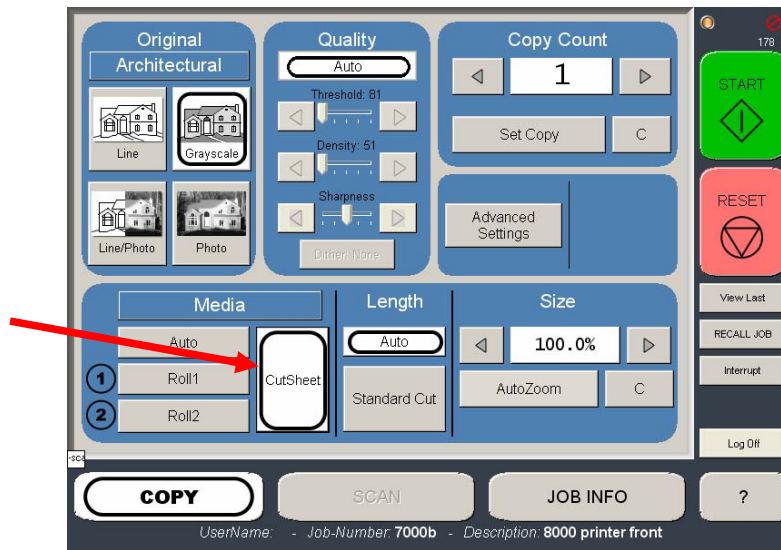


9. Press "OK" on the Operator Panel to continue copying or printing.

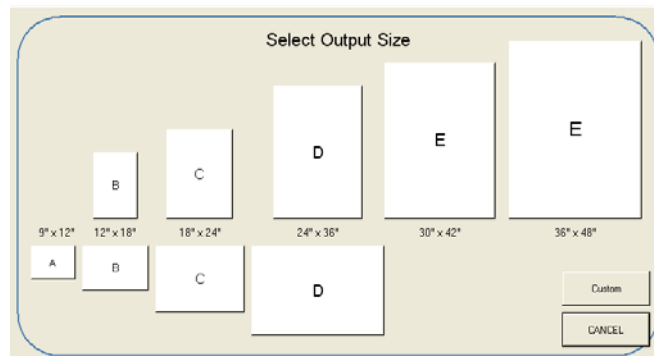


## 2.5 Cut Sheet Media Placement

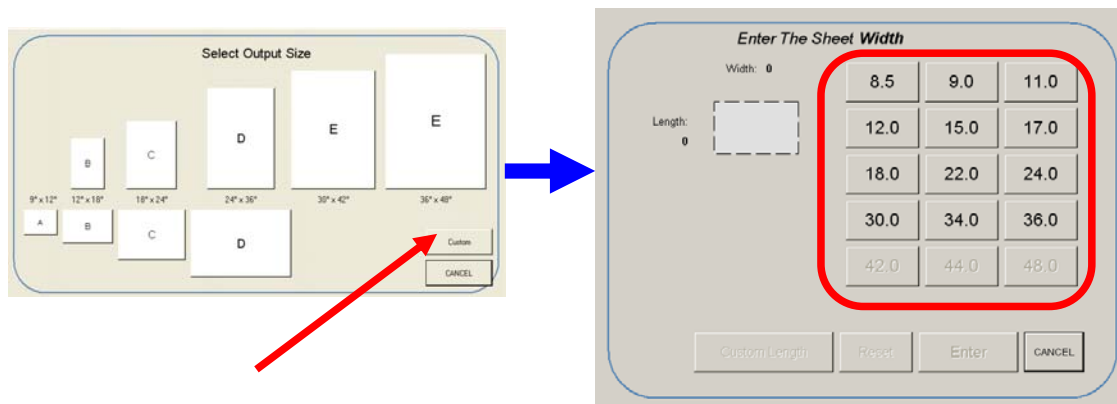
1. Select Cut Sheet Bypass Button on the Operator Panel. (Copy Mode)



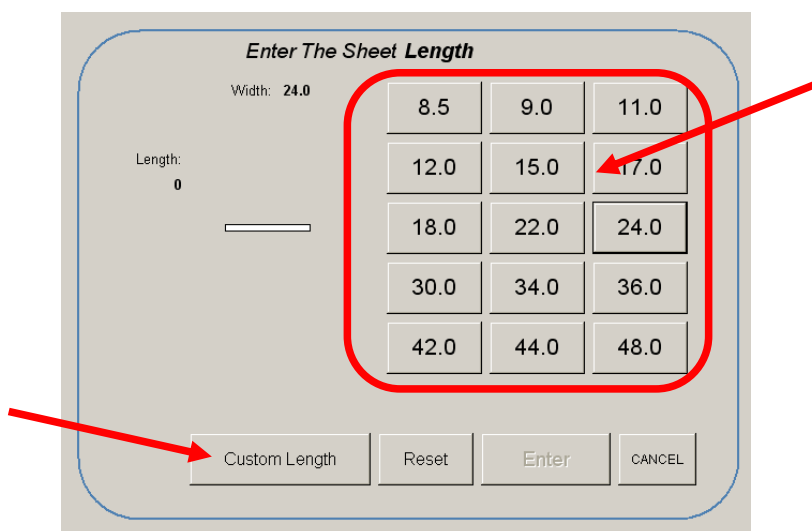
2. Select the size of the sheet, and the media type (not shown)



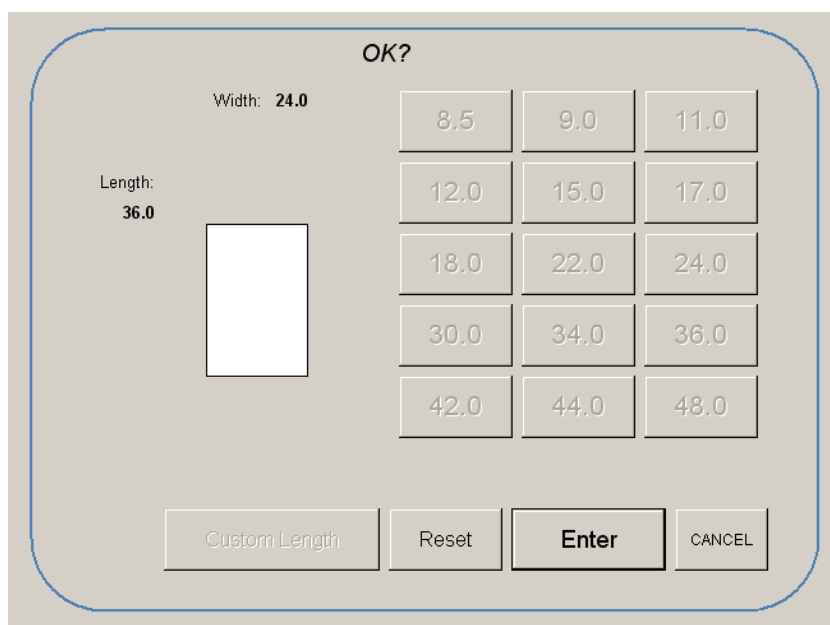
3. Or use “Custom” to select a width.



4. Select a standard length or use a “Custom Length”.



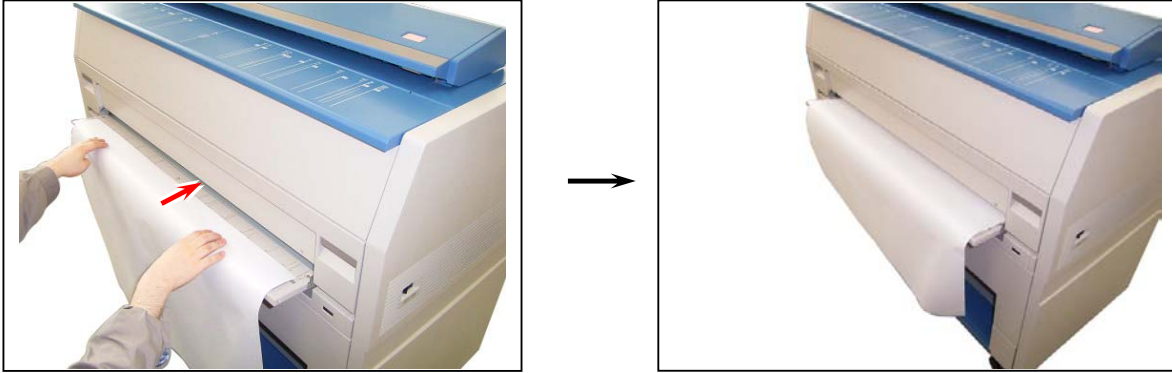
5. Confirm the cut sheet size by pressing enter.



6. Open the Cut Sheet Feeder (1).



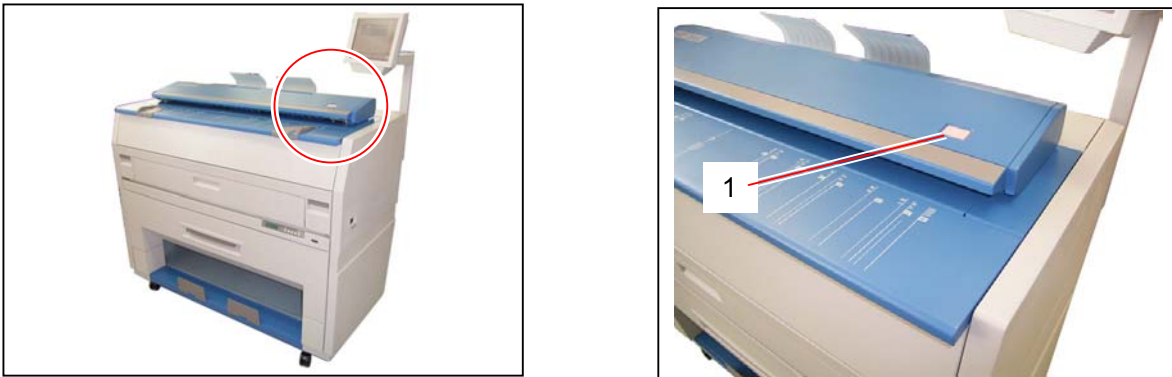
6. There are size markings on the table.  
Insert the cut sheet paper on the table along with the associated size mark, and then insert it into the Feeder referencing the size marks.  
When the paper is inserted far enough, the machine automatically sets the paper at the proper position.



7. Continue with normal copy / print functions. See User Guide “Copy” or “Print” sections.

## 2. 6 Emergency Stop of a Copy or Scan

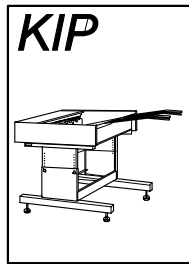
If ever so required, press the Stop Button (1) on the Scanner to immediately stop the original while making a copy or a scan.



## 2. 7 Dehumidifying the Roll Media

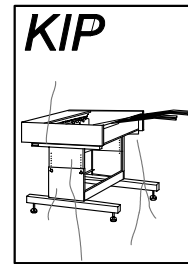
If the roll paper is extremely humidified, it may cause several kinds of defective print. Defective prints you will experience most will be “crease of paper” and “loss of image”.

Normal Print



If the media is humidified ;

Crease of paper



Normal Print



If the media is humidified ;

Loss of image

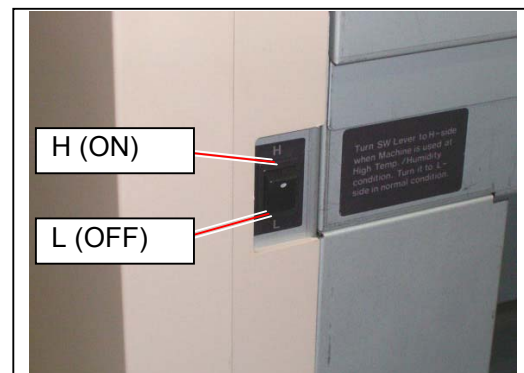


Turn on the Dehumidify Heater if the room air has too much humidity (65% or higher) to prevent the above kinds of print defect.  
You may be able to fix the above kinds of problem.

### ! NOTE

KIP3000 is equipped with the Dehumidify Heater (optional in U. S. A.)  
If needed, contact the service personnel for detail.

To turn on the Dehumidify Heater, press the H side of the Dehumidify Heater Switch on the rear.  
(Press its L side to turn off.)



Dehumidify Heater Switch

## 3. 1 Operational Errors

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### 3. 1. 1 Paper mis-feed errors

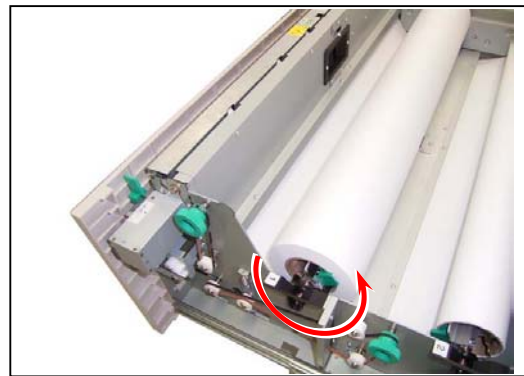
Some message will be indicated on the LCD in case of a paper jam.  
Any of the following messages will be indicated.

- Feeding Jam
- Manual Jam
- Reg. Jam
- Internal Jam
- Fuser Jam
- Accessory Jam

#### 3. 1. 1. 1 Deck jam / Feeding Jam

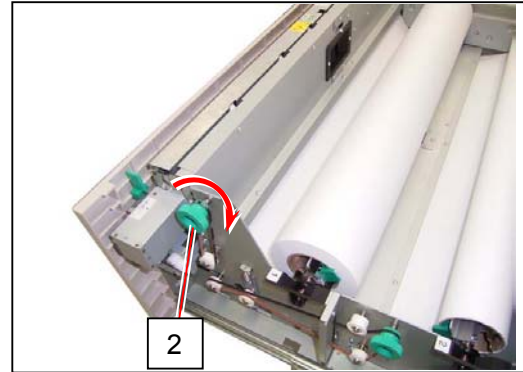
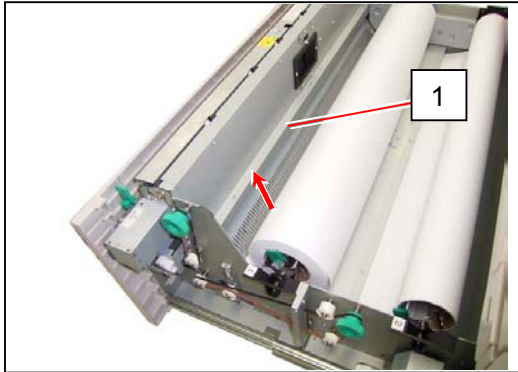
Either of “Deck is jam” or “Feeding Jam” is indicated when the roll paper is mis-fed in the Roll Deck.

1. Open the Roll Deck, and then rewind the roll paper.





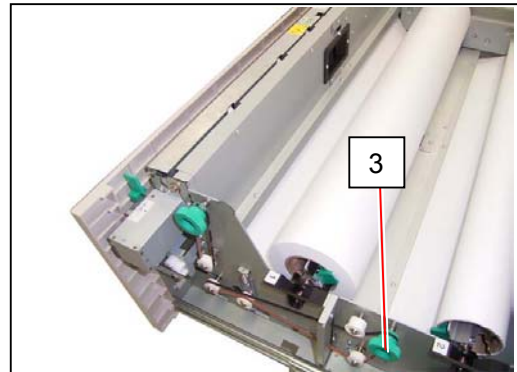
2. Insert the leading edge of roll paper under the under the Guide Plate (1) until the edge touches the feeding roller.  
Then rotate the Paper Feeding Knob (2) clockwise so that the feeding rollers catch the roll paper.



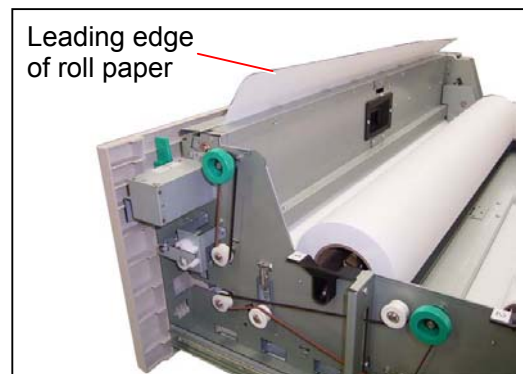
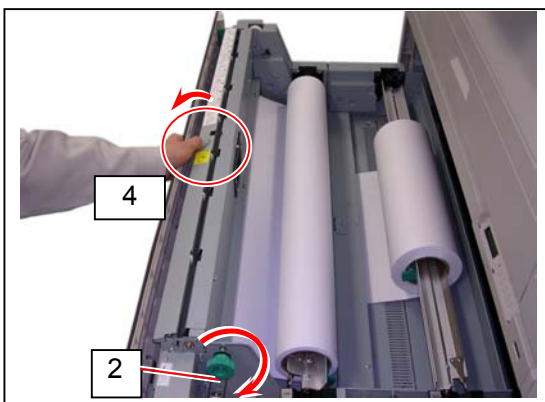
### **! NOTE**

The leading edge should be trimmed with a cutter in case of an extreme crease.

For Roll 2, rotate the Paper Feeding Knob on the rear side (3).

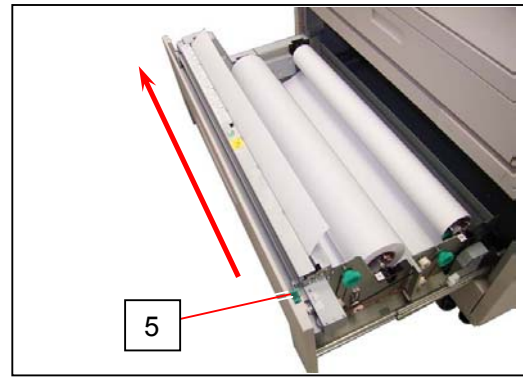


7. When the feeding rollers catch the paper, fold the middle of the Guide Plate 6 (4) outside.  
Rotate the Paper Feeding Knob (2) again until the leading edge comes out in 100 millimeters.





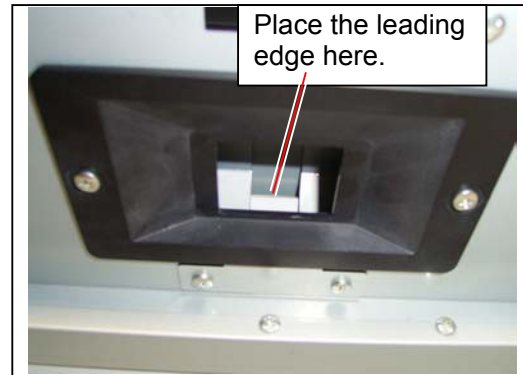
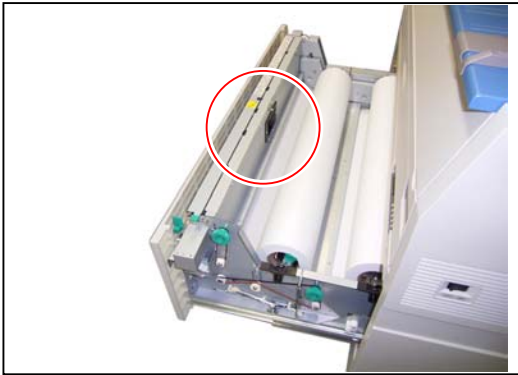
4. Slide the Cutter Knob (5) fully from one side to another side to cut the leading edge. Remove the paper portion.



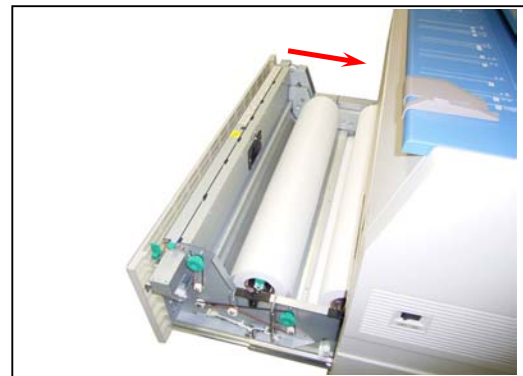
**! NOTE**

Slide the Cutter Knob completely until it is stopped at the right or left end. If not there, a paper jam may occur.

5. Rewind the roll paper a little to place the leading edge as the following photo.



6. Close the Roll Deck.

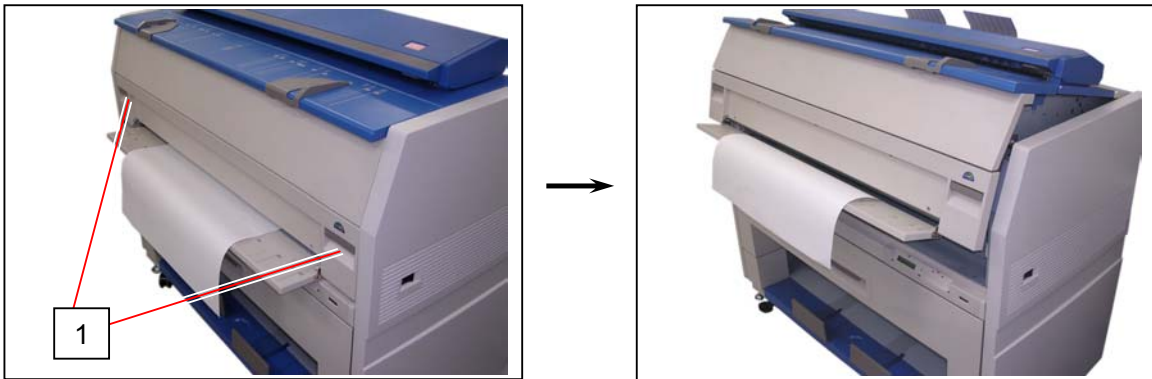


**! NOTE**

Be sure to close the Roll Deck fully until it is locked at the correct position. A paper jam may occur if it is not locked firmly.

### 3. 1. 1. 2 Manual Jam

1. Pull up the Lever 2 (1) to open the Engine Unit.



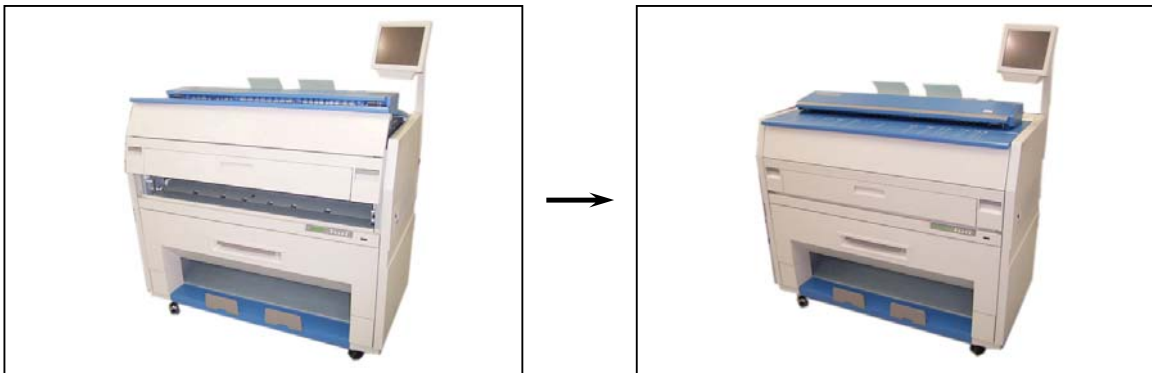
#### **! NOTE**

Do not open the Engine Unit when the Scanner Unit is opened.  
If the Scanner Unit is opened, it will hit the bottom of User Interface.

2. Remove the mis-fed paper pulling frontward.



3. Close the Engine Unit.



#### **! NOTE**

Be sure to close the Engine Unit firmly until it is locked at the correct position.  
The mis-fed paper can be replaced with a new one, or be inserted at the opposite edge to the feeder. An extreme crease may cause a paper jam.

### 3. 1. 1. 3 Reg. Jam / Internal Jam

1. Pull up the Engine Unit Open Levers (1) to open the Engine Unit.



#### **! NOTE**

Do not open the Engine Unit when the Scanner Unit is opened.  
If the Scanner Unit is opened, it will hit the bottom of User Interface.

2. Remove the mis-fed paper.



3. Close the Engine Unit firmly.



#### **! NOTE**

Be sure to close the Engine Unit firmly until it is locked at the correct position.

### 3. 1. 1. 4 Fuser Jam

1. Pull up the Engine Unit Open Levers (1) to open the Engine Unit.



#### **! NOTE**

Do not open the Engine Unit when the Scanner Unit is opened.  
If the Scanner Unit is opened, it will hit the bottom of User Interface.

2. Remove the mis-fed paper if seen.



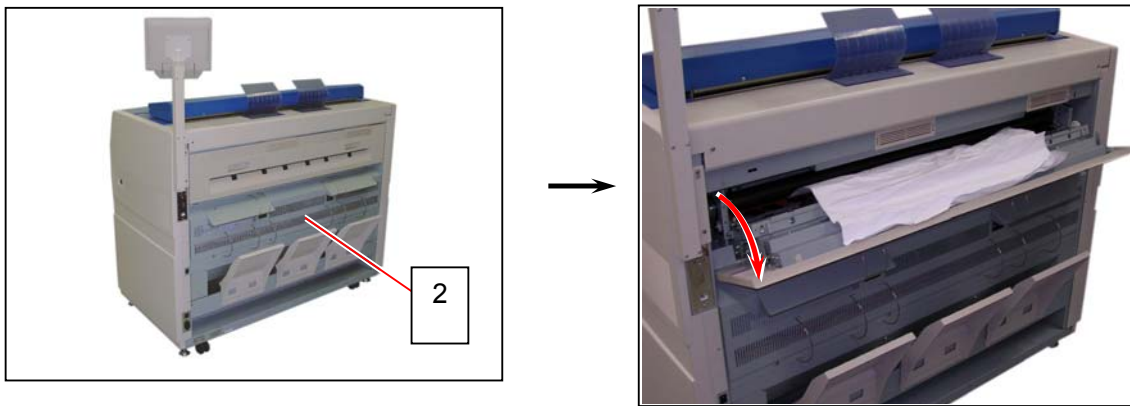
3. Close the Engine Unit firmly.  
Refer to the next page when the mis-fed paper cannot be seen or removed.



#### **! NOTE**

Be sure to close the Engine Unit firmly until it is locked at the correct position.

4. Open the Exit Cover (2).



5. Remove the jammed paper pulling to the rear side.



### **⚠ WARNING**

There are extremely hot parts inside the Exit Cover.  
Do not touch any parts in the Heater Unit. or you will be burnt.  
Also be careful not to get burnt when you touch the printing paper as it may be very hot.

### **⚠ NOTE**

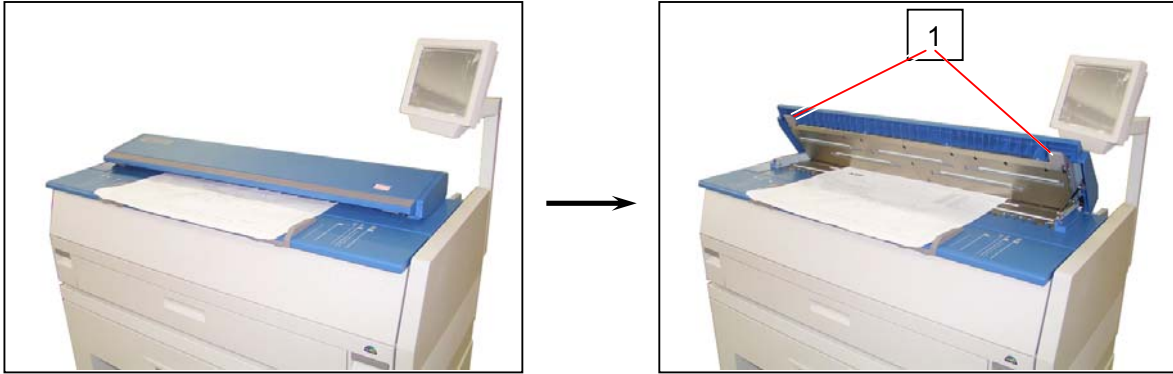
If removed a mis-fed paper inside the Exit Cover, scattered toner can be adhered to the next print.

## **3. 1. 1. 5 Accessory Jam**

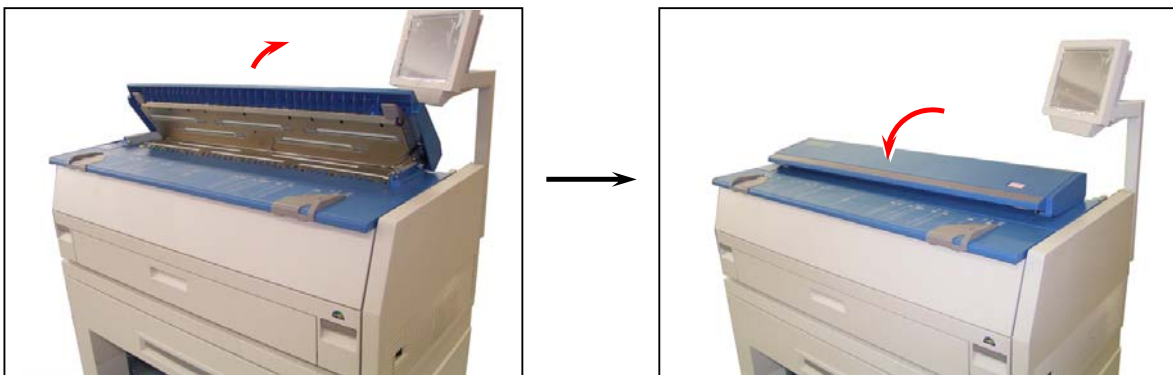
The printing paper is mis-fed in the optional device such as Auto Stacker or Folder.  
Remove the mis-fed paper making reference to the User's Manual of concerning device.

### 3. 1. 1. 6 Original Jam

1. Open the Scanner Unit pulling up the Levers (1), and then remove the original.



2. Move the Scanner Unit to the rear side slightly to unlock, and then close it.





## 3. 1. 2 Others

### 3. 1. 2. 1 Deck open

This message is indicated when the Roll Deck is opened.  
Close it firmly.

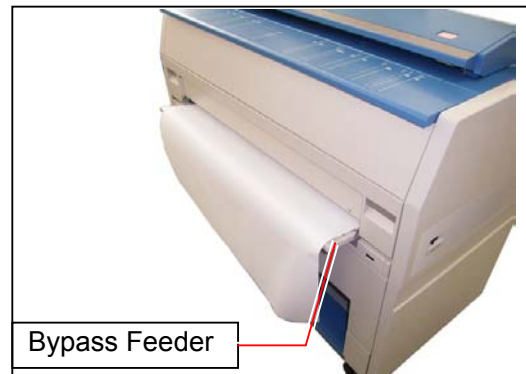


### 3. 1. 2. 2 Accessory Error

Any error occurs in the optional device such as Auto Stacker or Folder.  
Clear the error making reference to the User's Manual of concerning device.

### 3. 1. 2. 3 Manual Set

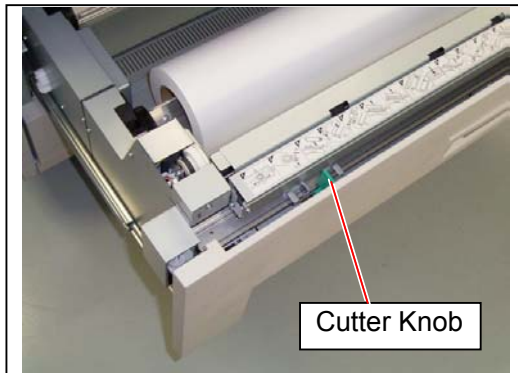
This message is indicated when a cut sheet paper is inserted to the Bypass Feeder during warming up.  
Remove it from the Bypass Feeder.



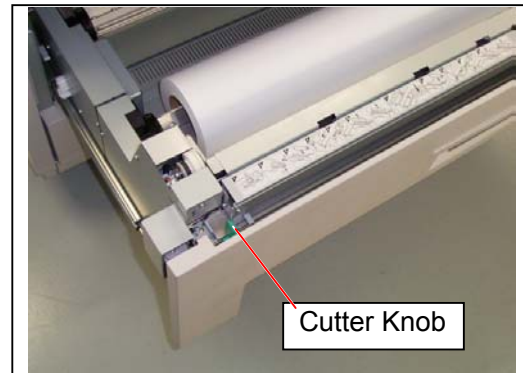
### 3. 1. 2. 4 Cutter Set

This message is indicated when the Cutter Knob is not located at the correct position.  
Open the Roll Deck, and slide the Cutter Knob fully to the left or right to align the Cutter Knob with the end of the railing.

Incorrect (Not placed at the end)

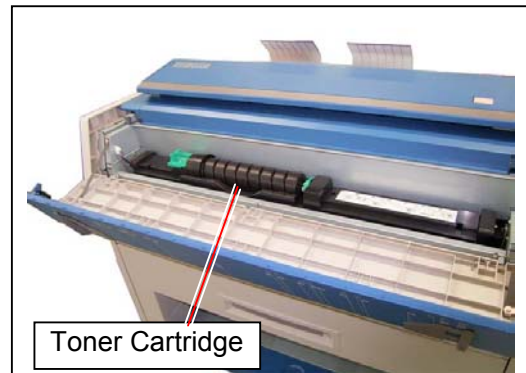


Correct (Placed at the left or right end)



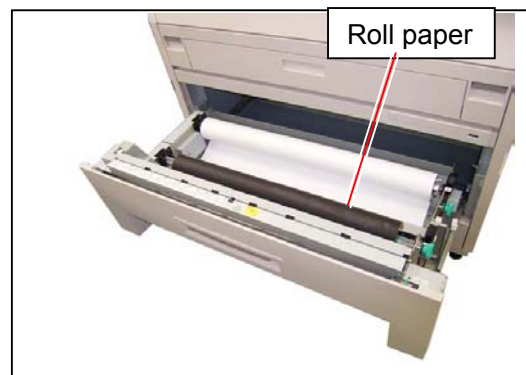
### 3. 1. 2. 5 Toner Empty

This message is indicated when the Toner Cartridge is emptied with the toner.  
Replace the Toner Cartridge with the new one making reference to [2. 4 Replacement of Toner Cartridge] on the page 2-10.



### 3. 1. 2. 6 Paper Empty

This message is indicated when the roll paper in use is emptied.  
Replace roll paper with the new one making reference to [2. 3 Replacement of Roll Paper] on the page 2-5.





### 3. 1. 2. 7 The door opened during the print

This message is indicated when the Roll Deck is opened during printing by accident.

Close the Roll Deck.

If the paper is mis-fed inside the machine, remove it.



## 3. 2 Call Service Errors

---

In case the following Error Codes for a serious failure appear in the screen;

**PLEASE CALL YOUR TRAINED SERVICE PERSONNEL TO RESOLVE THE ERRORS.**

No operation should be done by the customer.

Error Code	Error Indication
E - 000	Fuser Low Temp
E - 001	Fuser Over Temp
E - 002	Fuser Low Temp
E - 003	Temp Not Rise
E - 010	Motor1 Error
E - 011	Motor2 Error
E - 012	Motor3 Error
E - 020	Counter Error
E - 031	1st Error
E - 032	AC Error
E - 033	Tr Error
E - 034	Bias Error
E - 040	Cutter Error
E - 050	FPGA Error
E - 070	Dev Error

If any of the above errors appear:

1. Turn off KIP3000, and turn it on after an interval of 3 minutes or more.
2. If the same error code appears, turn off KIP3000, and then unplug the printer from the wall outlet after an interval of four minutes for shutdown. Call your service personnel.

## 4. 1 User Maintenance

---

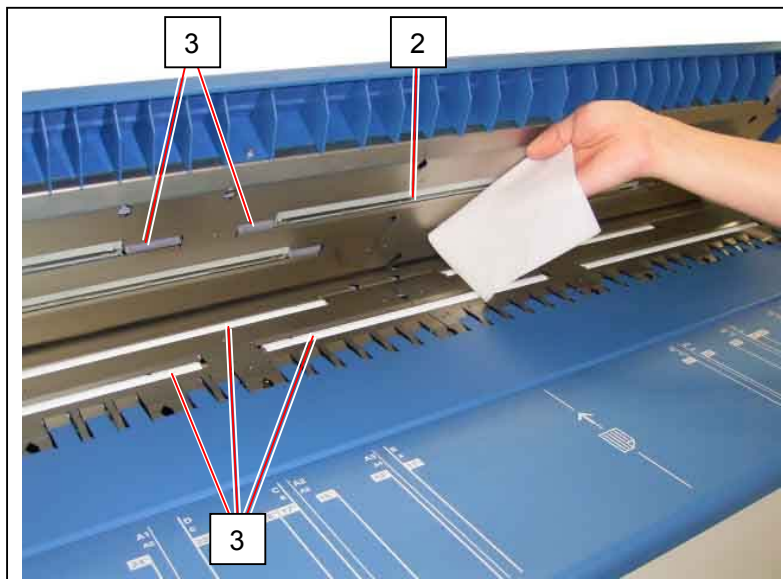
### 4. 1. 1 Scanner

Clean each Scan Glass, Feeding Rollers and Guide Plates once per a week, as the scan/copy image may become defective if these parts are dirty.

1. Turn off KIP3000.
2. Open the Scanner Unit pulling up the Levers (1).



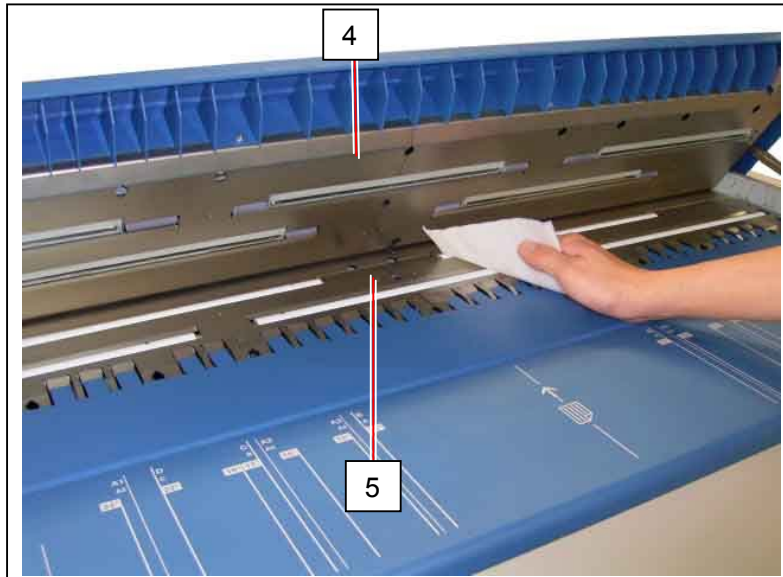
2. Wipe each Scan Glass (2) and Feeding Rollers (3) with a soft cloth. Use equal volume mixture of water and a neutral detergent.



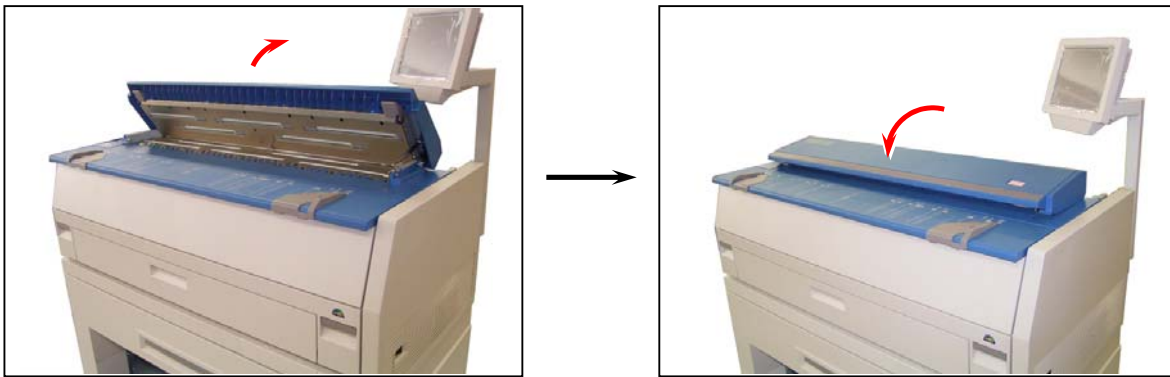
#### **NOTE**

Do not use organic solvent, glass cleaner and anti-static spray for the cleaning.

3. Wipe both the Upper Guide Plate (4) and the Lower Guide Plate (5) with a soft dry cloth.



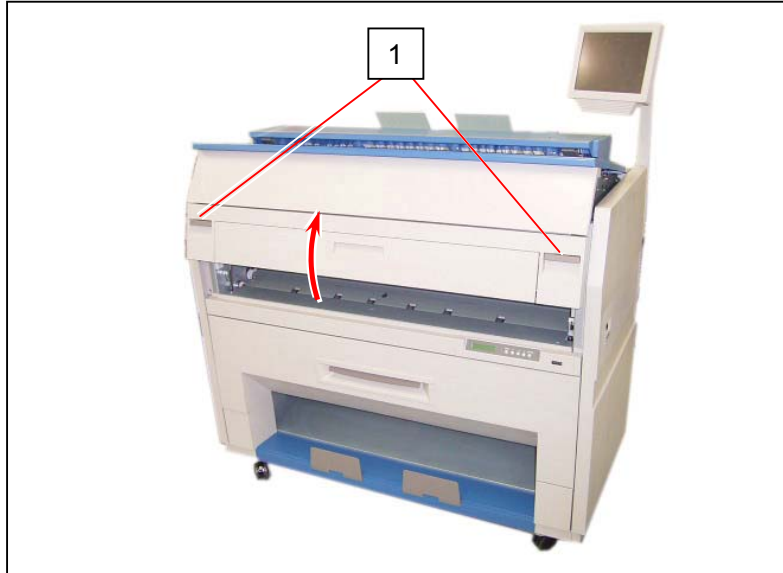
4. Move the Scanner Unit a little to the rear side to unlock, and then close it.



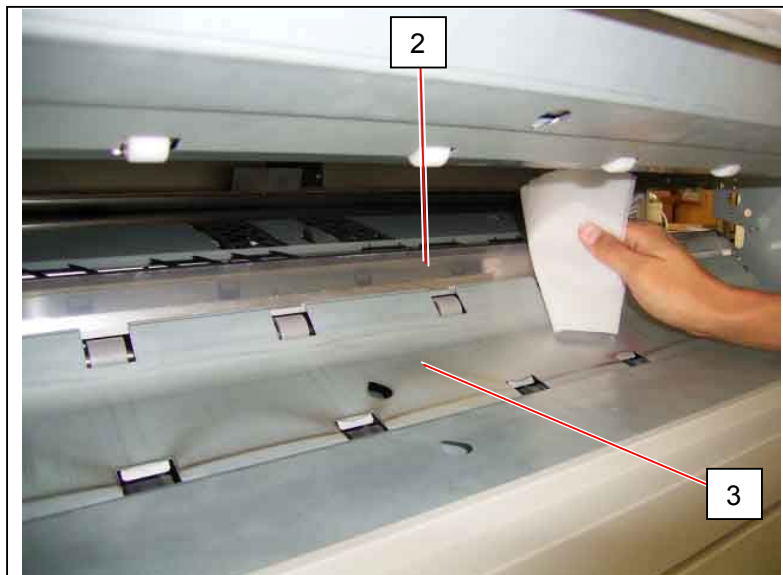
## 4. 1. 2 Print Engine

Clean each Guide Film and Guide Plate once per a week, as the toner or paper dust may accumulates on such part which may result in a defective print image.

1. Turn off KIP3000.
2. Open the Engine Unit pulling up the Engine Unit Open Levers (1).



2. Wipe each Guide Film (2) and Guide Plate (3) with a soft dry cloth to remove the toner or paper dust.

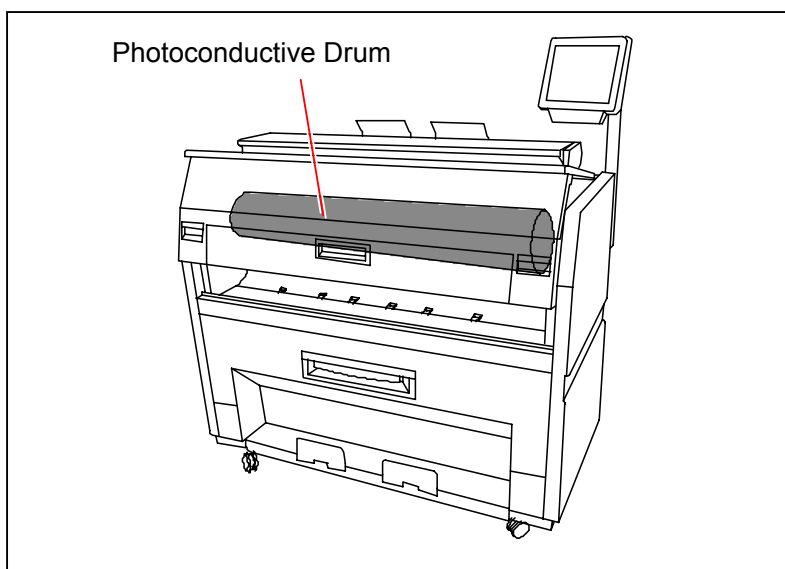


## **! NOTE**

- (1) There is a Photoconductive Drum (large green cylinder) in the machine, which is right above the Guide Film.  
You will have to replace the Drum if it is damaged, as it is a very important part in creating the print image.

Please take care of the following matters when you make cleaning.

- a.) Do not touch the drum.  
Adhering a fingermark or sebum on the Drum may cause defective printing.
- b.) Take off such metal accessories as watch or ring.  
You will have to replace the Drum if you damage the Drum scratching with such accessories.
- c.) Do not leave the Upper Unit open for more than 10 minutes as the Drum is very sensitive to light. (Direct sunlight is very harmful.)



- (2) Do not use water, organic solvent and alcohol for the cleaning.

### 3. Close the Engine Unit.



### 4. 1. 3 Touch Screen

Clean the Touch Screen once per a week.

1. Wipe the Touch Screen with a dry cloth.



#### **! NOTE**

Do not use water, alcohol, organic solvent and glass cleaner for the cleaning.

## Section 2

# Copy Mode - Monochrome

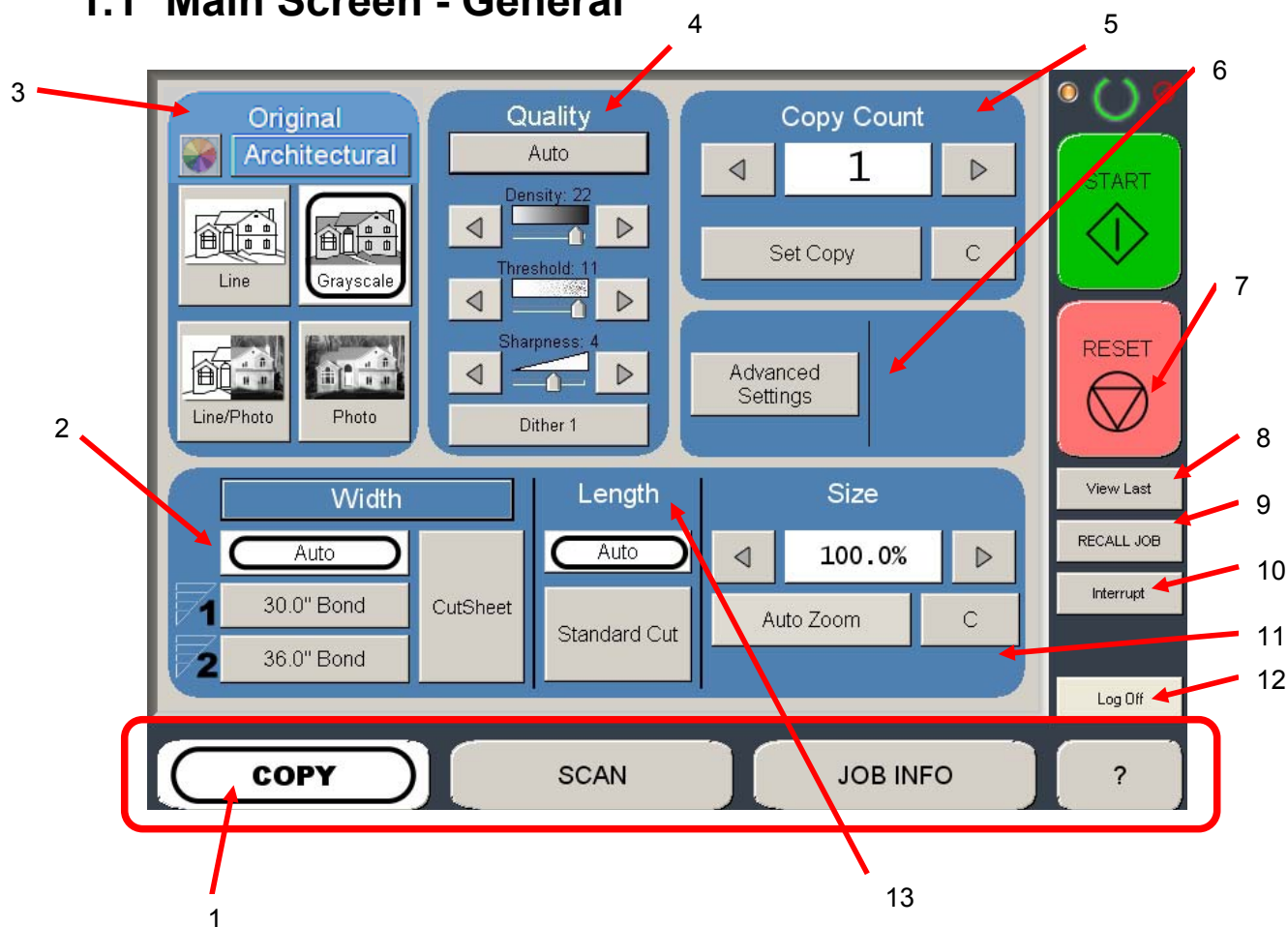
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# 1.0 Copy Mode - Monochrome

## 1.1 Main Screen - General



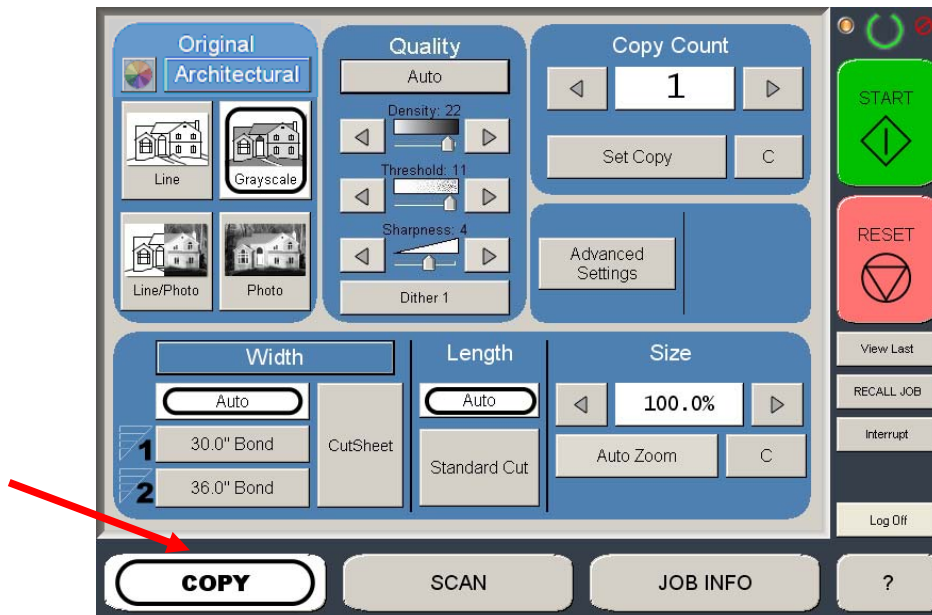
No.	Name	Function
1	Mode	Selects the "Mode" of the system. (Copy Mode for this screen shown)
2	Media	Displays Media type and quantity installed. Includes Cut Sheet Functions and Media Selection
3	Original Type	User Selects the type of original to copy. Also select Eng/Arch Modes here. (Color Copy is selected here if enabled)
4	Quality	Select Auto or Manual Image adjustments
5	Copy Count	Select the quantity of prints and sets designation.
6	Advanced Settings	Invert , mirror, stamps, folds, and edge adjustments preformed / displayed in this button (sub screen)
7	Reset	Clears the image buffer and resets the system to default settings.
8	View Last	The last scan / job can be viewed
9	Recall Job	Images can be recalled from the last job for reprint. Please note that a time limit may be set to recall or this feature may be disabled by the administrator to prevent any unauthorized copies.
10	Interrupt	Pauses the network print jobs to print any copy jobs
11	Zoom	Manual and automatic zoom ratios set.
12	Log Off	Displayed if Accounting enabled to Log off current user
13	Length	Sets the length of the copy

## 1.2 Simple Copying

To copy, please follow these basic steps. The following chapters have details on adjustments and parameters that the user can change to modify the copies as required.

### 1.2.1 Select Copy Mode

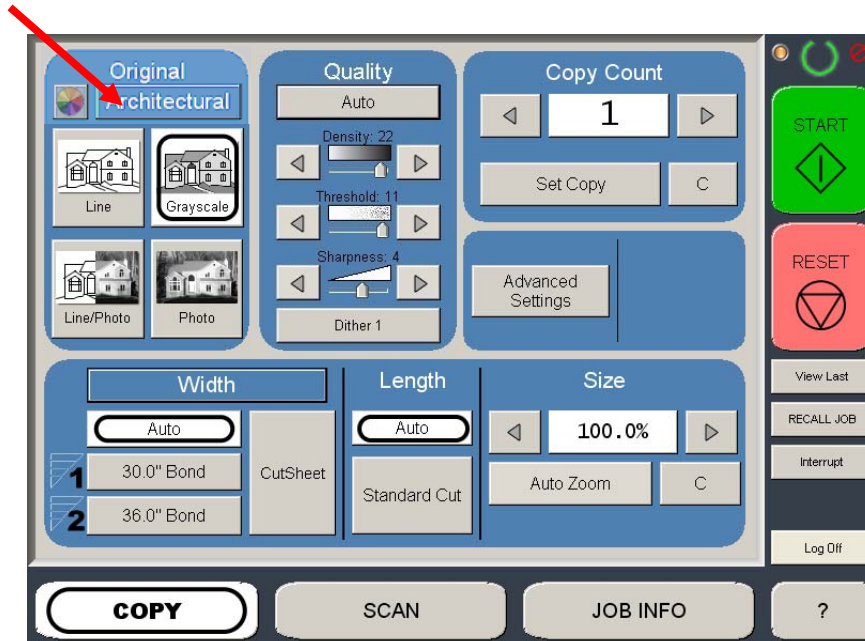
On the lower region of the Operator Panel, select “COPY”.



### 1.2.2 Select Size Mode

Select whether the document is an engineering or architectural size document. This will allow the automatic width detection to function.

Engineering widths = 34, 22, 17, 11, and 8.5 inches  
Architecture widths = 36, 30, 24, 18, 12, and 9 inches

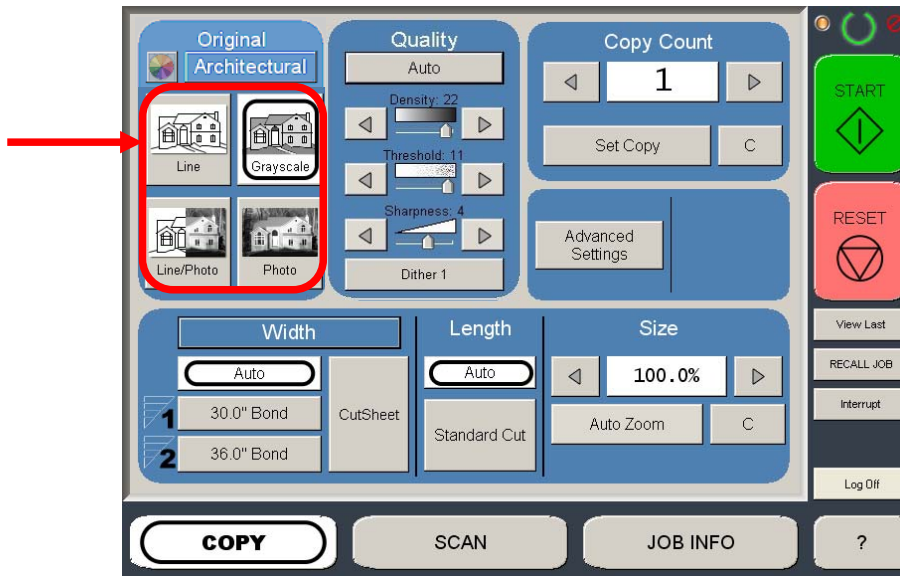


### 1.2.3 Select Original Image Type

Set the original image type you will copy. The selections are:

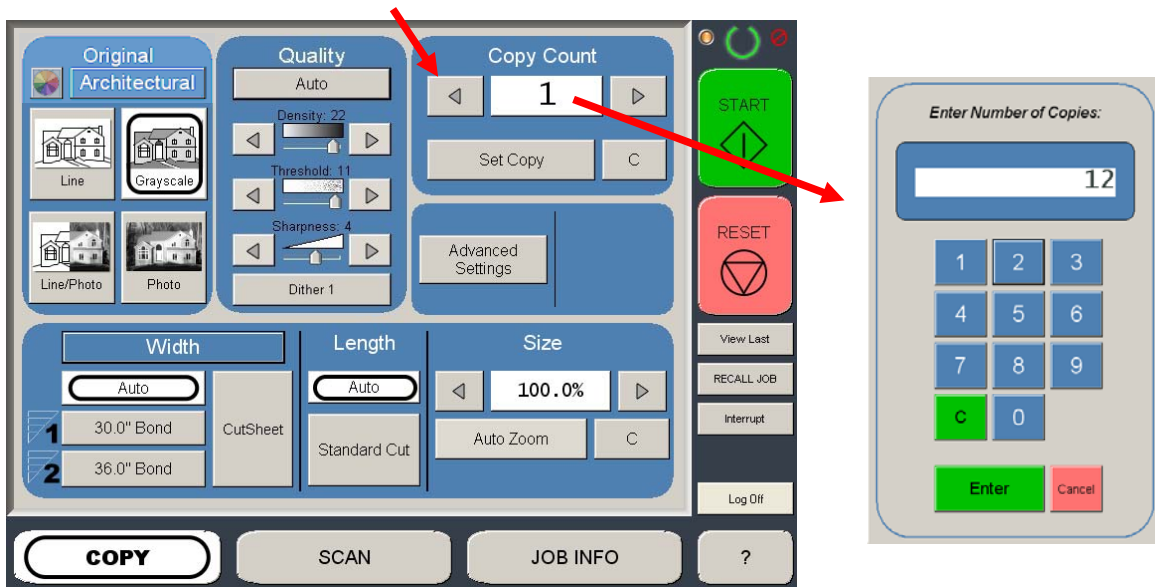
- Line - used for simple line documents
- Line / Photo - used for a combination of lines & photos documents
- Grayscale - used for a combination of lines & areas of shade (CAD) originals
- Photo - used for photographic originals

This will allow automatic image quality adjustments for the scan.



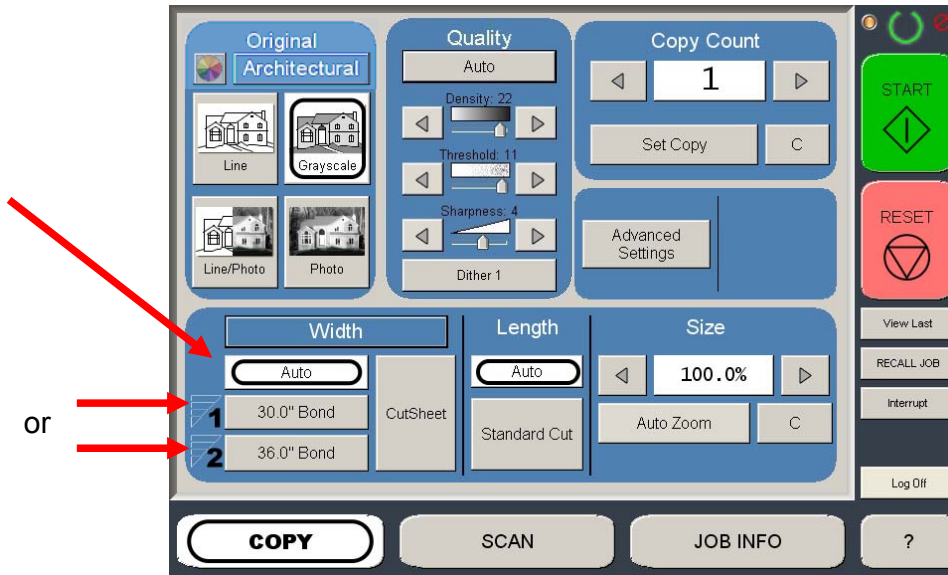
### 1.2.4 Copy Count

Press the arrow buttons to scroll through the number of copies required **or** press on the actual number to set the quantity with the number pad.



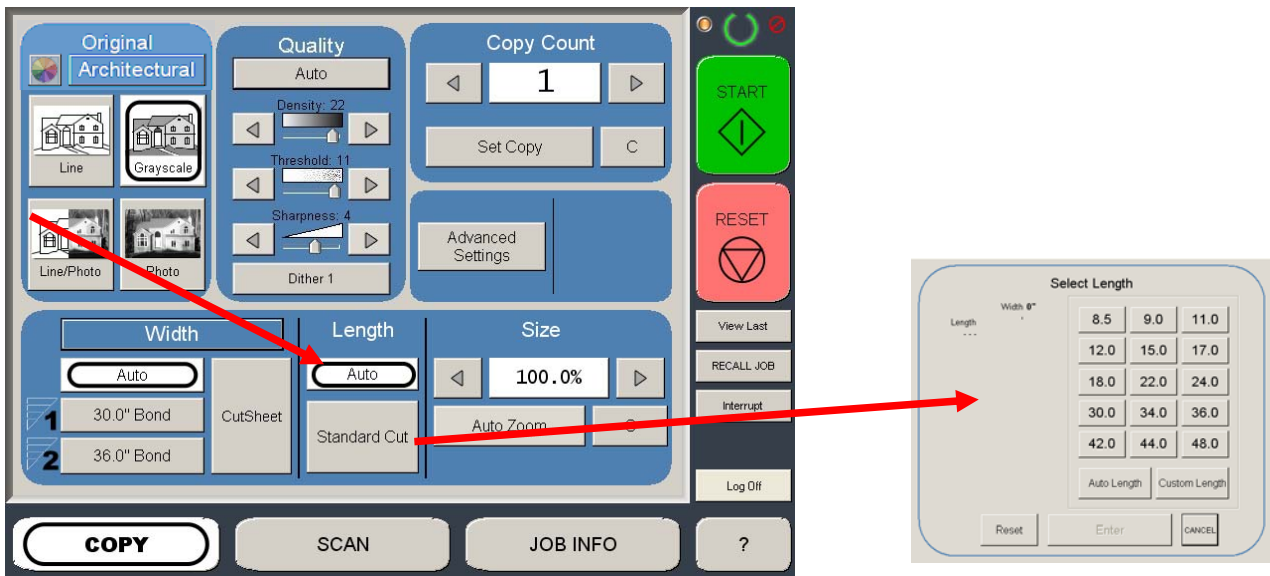
### 1.2.5 Media

Selects automatic (for best possible fit) or manual roll selection.



### 1.2.6 Length

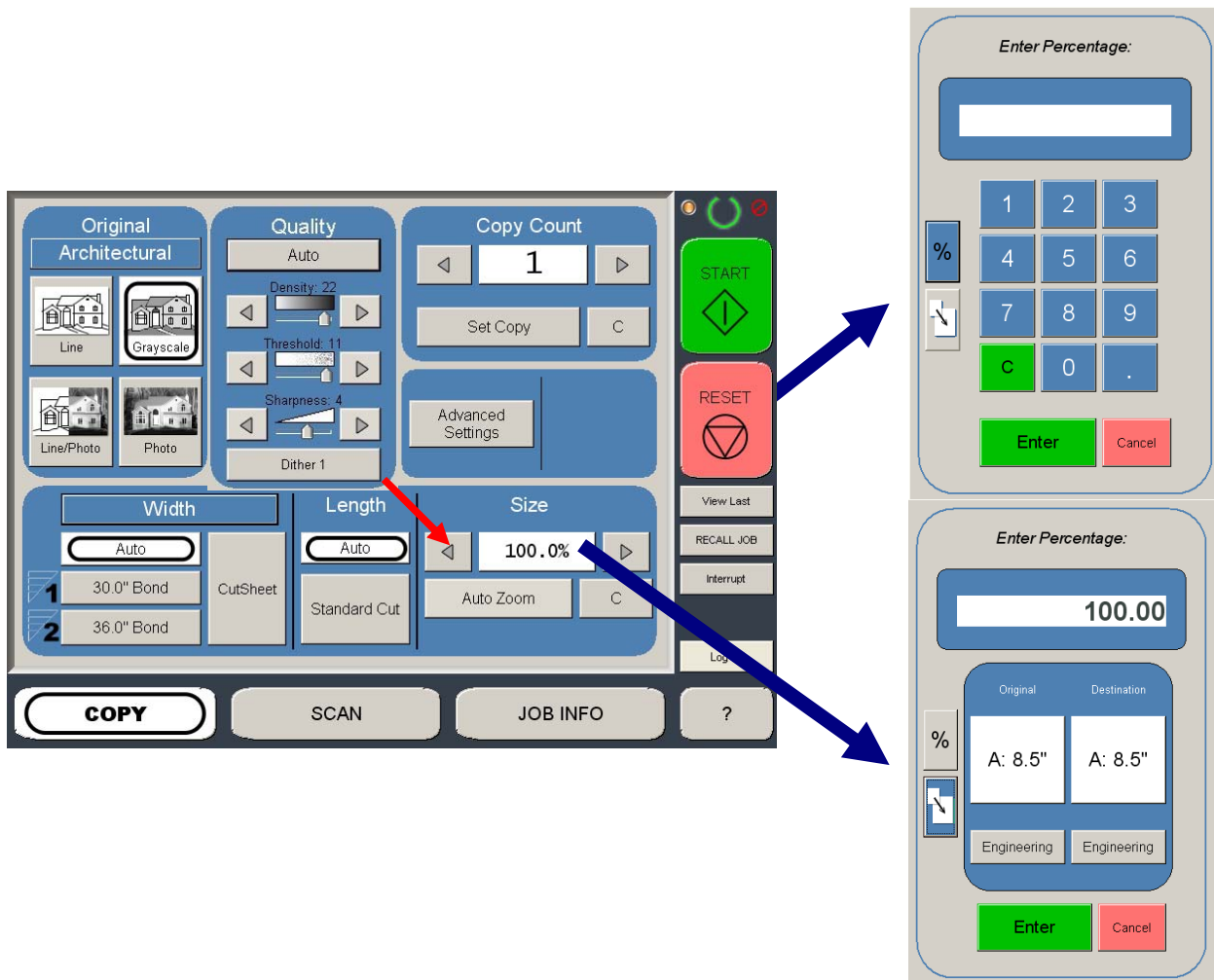
Select Auto for automatic cut length (to the length of the original) or Standard Cut for a manual length. (A number pad will request the desired length to be entered)



### 1.2.7 Size

Select

- AutoZoom to automatically zoom to the width of paper or
- press the arrow keys to scroll through presets ratios or
- press on the Zoom number to enter a ratio on the key pad



### 1.2.8 Insert Original

Using the guides on the feed table, center the original face up and push forward until the KIP 3000 accepts it.

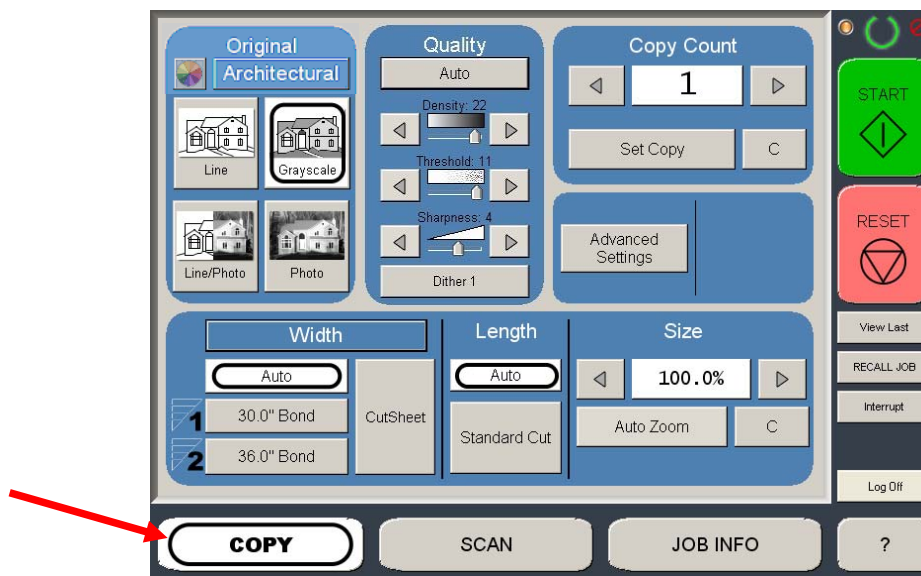
The KIP 3000 will automatically commence to copy. While this occurs the image will be displayed on the Operator Panel for your reference.



## 2.0 Operation Details

### 2.1 Main Screen

The main Copy screen is selected with the Copy Button.



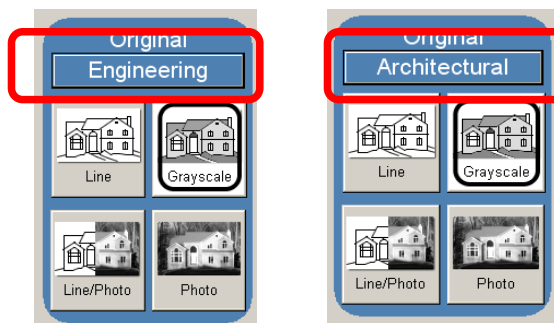
This screen contains all user functions for copying. The following pages details the functions and settings of each button and sub screens that can be used to adjust the copy mode parameters to achieve the required result.

### 2.2 Original

This region allows the setting of the Size Mode (Engineering or Architectural) and the original image type.

#### 2.2.1 Original Size Mode

This button is used to select the Size Mode of Engineering or Architectural.



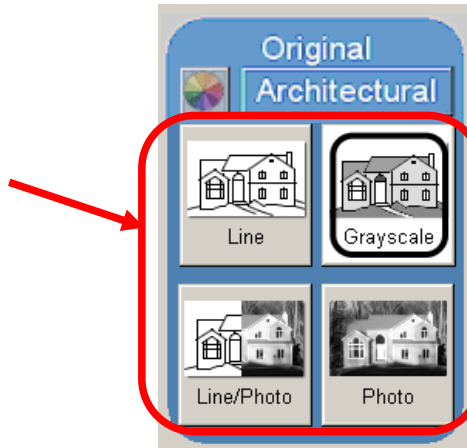
This will allow the automatic width detection system to determine the image width when an original is placed in the KIP 3000.

**Engineering widths = 34, 22, 17, 11, and 8.5 inches**  
**Architectural widths = 36, 30, 24, 18, 12, and 9 inches**

### 2.2.2 Original Type

Select one of the four different predetermined original types. The selections are:

- |                 |  |
|-----------------|--|
| a) Line         | - used for simple line documents                                   |
| b) Line / Photo | - used for a combination of lines & photos documents               |
| c) Grayscale    | - used for a combination of lines & areas of shade (CAD) originals |
| d) Photo        | - used for photographic originals                                  |



Press the desired original setting from one of the four diagrams. This will allow automatic image quality adjustments for the next scan. Please note that the selection will be highlighted with a “black circle” and the icon will become white, as in the above example “Grayscale”.

## 2.3 Quality

This region is used to change the image quality settings from the automatic setting.

### 2.3.1 Automatic

For most copies, “Auto” should be selected. This will allow the copier to automatically determine the best image settings without any user intervention (please also note “Original” in 2.2)

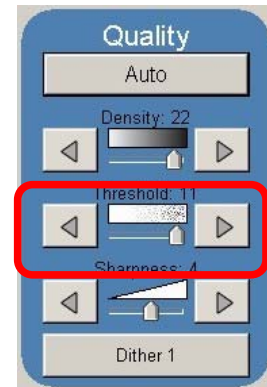




### 2.3.2 Threshold

To override the “Automatic” settings, “Threshold” can be adjusted. Deselect “Auto” to enable “Threshold”.

Pressing the arrows manually adjusts the threshold. This will suppress or enhance the lines and images from the original.



### 2.3.3 Density

To override the “Automatic” settings, “Density” can be adjusted. Deselect “Auto” to enable “Density”.

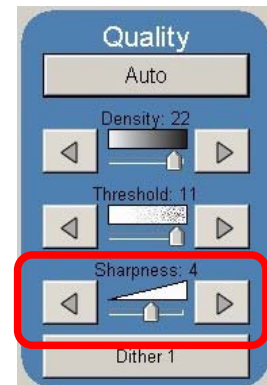
Pressing the arrows manually adjusts the background density. This will suppress or enhance the background from the original.



### 2.3.4 Sharpness

To override the “Automatic” settings, “Sharpness” can be adjusted. Deselect “Auto” to enable “Sharpness”.

Pressing the arrows manually adjusts the line sharpness to remove rough lines or when photos are copied to allow for smoother graduations.



### 2.3.5 Dither

To override the “Automatic” settings, “Dither” can be adjusted. Deselect “Auto” to enable “Dither”.

By pressing the dither button,

- a) None
- b) Fine
- c) Medium or
- d) Course

This will change how the dots are arranged to create the final image of the copy. For fine lines a “Course” dither pattern may be desired. For Photos “None” may be desired.



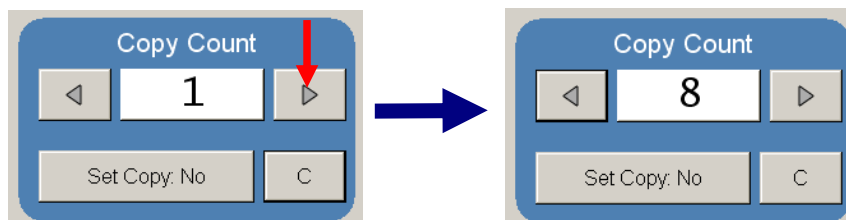
## 2.4 Copy Count

In this region the number of copies, and set copy / collation can be set.

### 2.4.1 Arrows - Count Increase / Decrease

Use the arrows to increase or decrease the total numbers of copies desired by one with each press of the button.

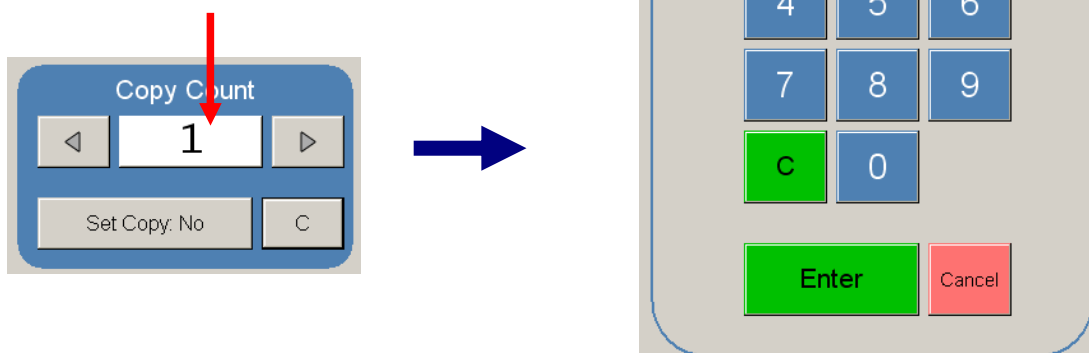
In this example the arrow was pressed **seven times** to reach “8 copies”.



### 2.4.2 Number Pad - Count Increase / Decrease

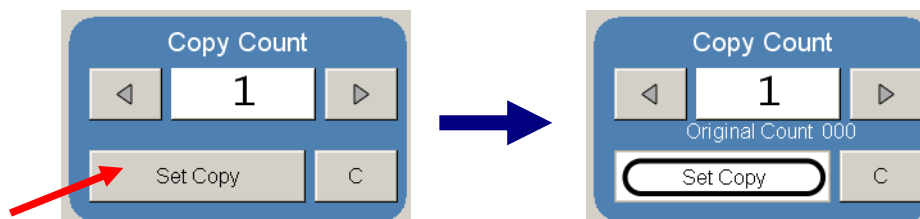
Press the “number of copies” value (which is a button) to set the desired number of copies using a number pad. This will allow the quick entry of larger numbers.

- Press the numbers for the quantity desired. (up to 999)
- Select “Enter”.
- If an entry error was made press “C” to start again.
- If you wish to close the screen without changing the quantity press “Cancel”.

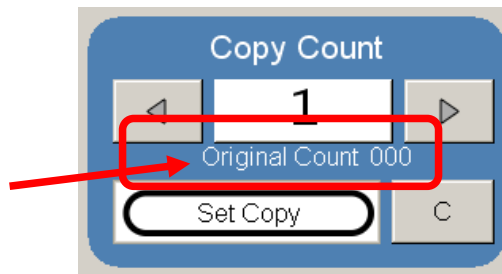


### 2.4.3 Set Copy

- To enable collated sets or copy sets to be printed select the Set Copy button.

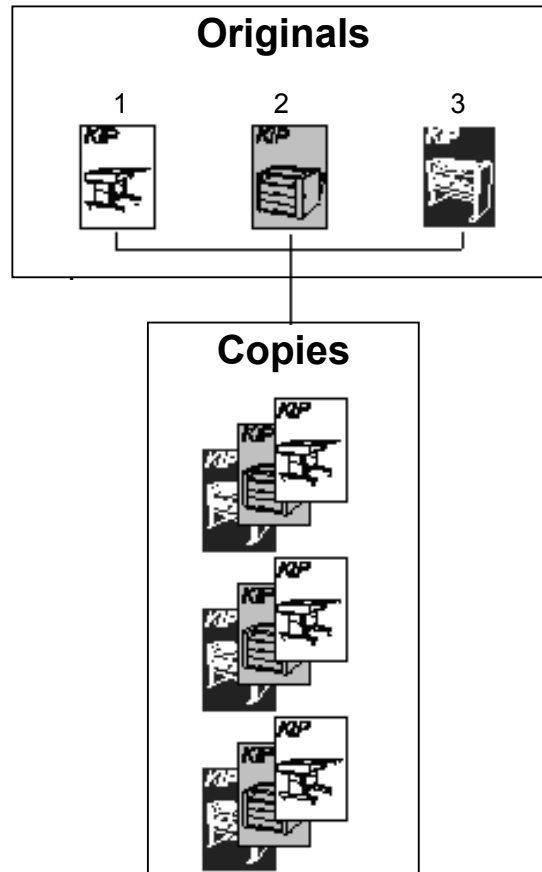


- As originals are scanned, the total number in the set is displayed.



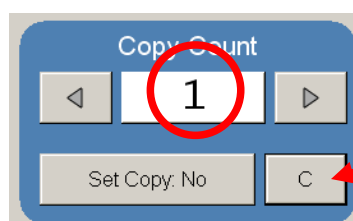
- c) Copying will **not commence** until the set is closed. To close a set, press the start button. The set with the total number of copies will be printed.

An example of Set Copy:  
3 originals with 3 sets or copies



#### 2.4.4 Clear

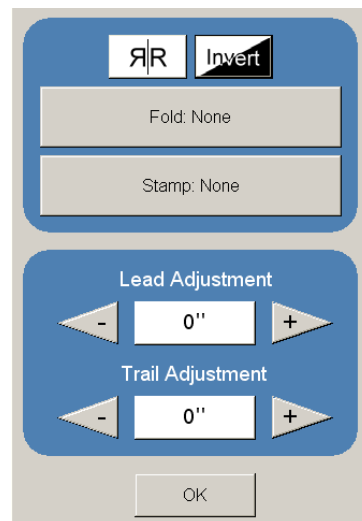
Press the clear button to reset the quantity to “1”.



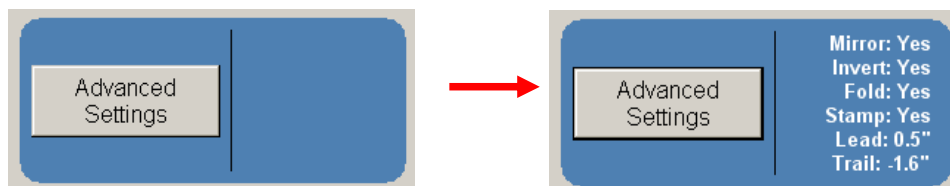
## 2.5 Advanced Settings

The Advanced Setting button contains the additional parameters on a sub screen:

- a) Mirror
- b) Invert
- c) Fold (if optional device connected)
- d) Stamp (Water Mark)
- e) Lead Edge Adjustment
- f) Trail Edge Adjustment



When any of the adjustments / selections is selected, the selections will now be displayed on the main Copy screen



### 2.5.1 Mirror

Select this button to “mirror” a scan. This can be utilized on originals that may have the actual image on the reverse side such as older “sepia” or “film” documents.



### 2.5.2 Invert

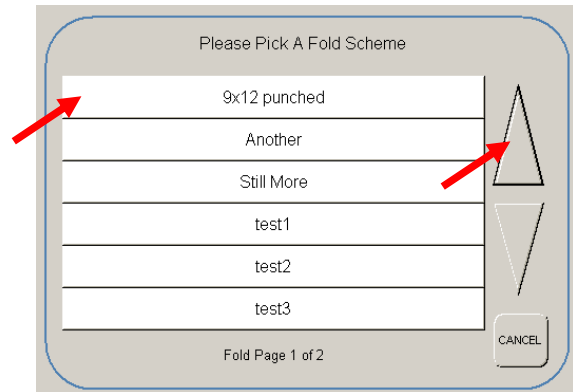
Select this button to change a region of white to black and visa versa of a scanned document. This is normally used for “negative” documents or “blue prints”.



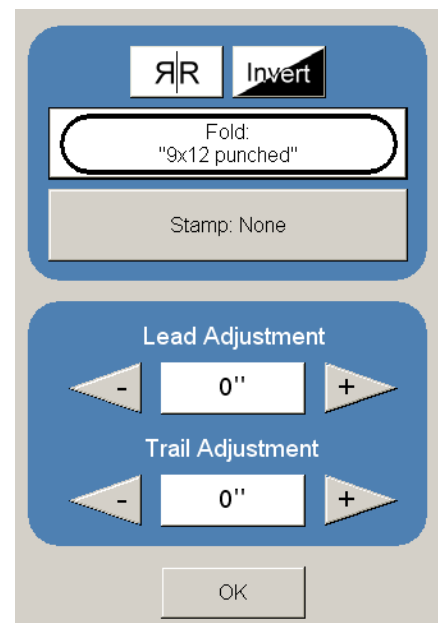
### 2.5.3 Fold

Select “Fold” to display the fold sub screen. This will allow the selection of a “Fold Pattern” to be applied to the copy.

- a) Use the Arrow buttons to scroll through the available folds and select a desired fold from the list.



- b) The fold selected will be displayed in the button.
- c) Select OK.



#### NOTE

The list of “Folds” is loaded into Copy Mode by the system administrator or key operator. They can not be altered or modified in any manner on the UI.

Please contact these persons for any additional stamps that may be required.

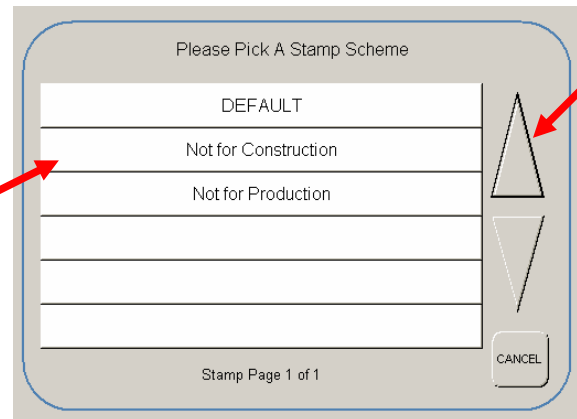
Please see “KIP Request” for these functions.

An optional KIP Folder must be purchased to enable these functions.

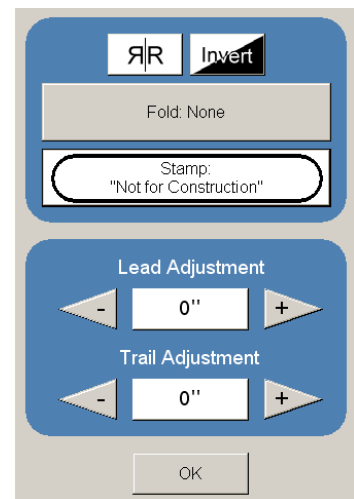
### 2.5.4 Stamp

Select “Stamp” to display another sub screen. This will allow the selection of a “Stamp” or “Water Mark” to be placed on the scanned image. It will be imbedded into the image.

- a) Use the Arrow buttons to scroll through the available stamps and select the desired stamp from the list.



- b) The Stamp button will now display the stamp selected.
- c) Select OK.



#### NOTE

The list of “Stamps” is loaded into Copy Mode by the system administrator or key operator. They can not be altered or modified in any manner on the KIP printer’s UI.

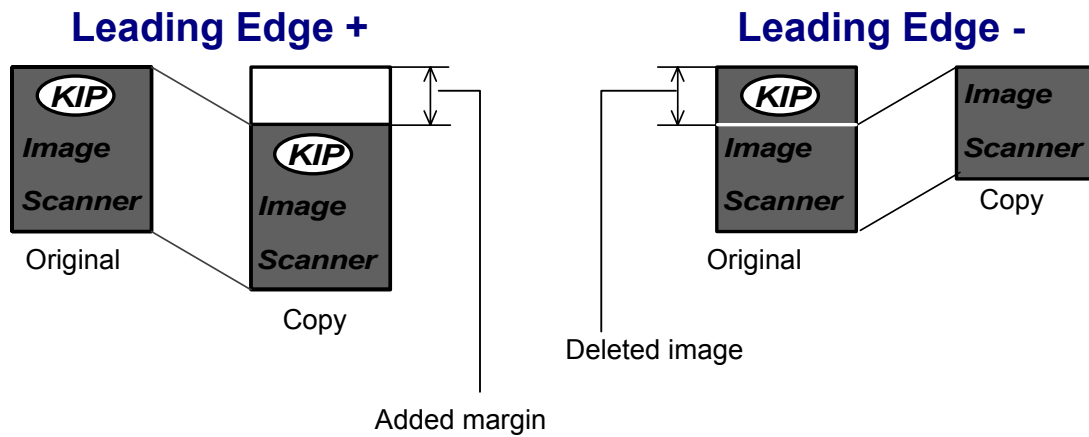
Please contact these persons for any additional stamps that may be required.

Please see “KIP Request” for these functions.

### 2.5.5 Leading Edge Adjustment

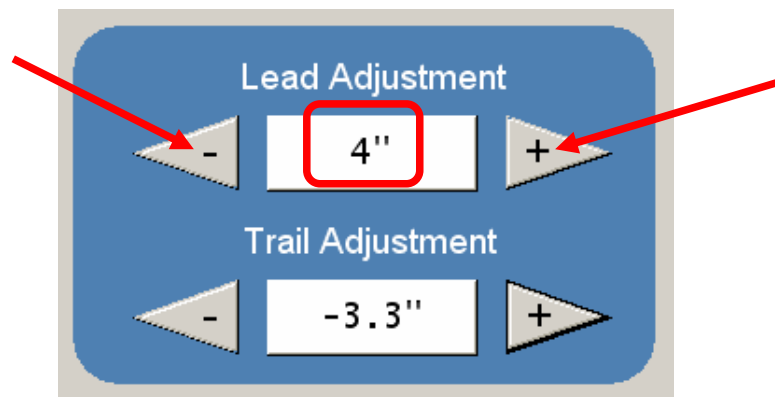
The leading edge of a copy can be altered. ( +/- 4" )

- a) additional void area can be placed on the lead edge of a scan or
- b) image can be removed (such as a binding strip or a file hanger)



To adjust the Leading Edge, use the arrows to denote the quantity you wish to add or remove.

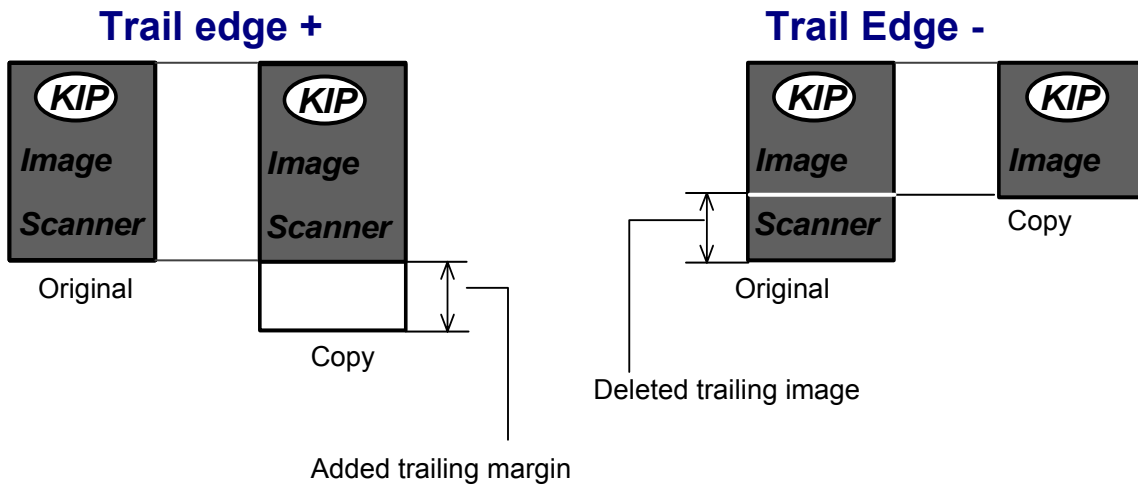
Touch the value displayed area to reset the quantity.



### 2.5.6 Trailing Edge Adjustment

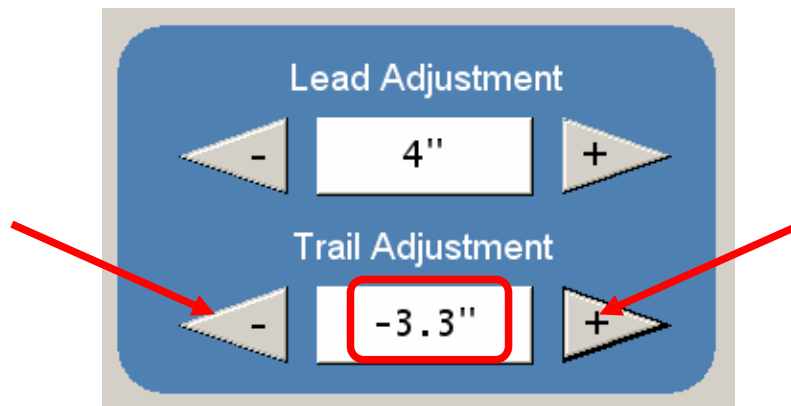
The trailing edge of each copy can be altered. ( +/- 4" )

- c) Additional void area can be placed on the bottom of a copy or
- d) Image can be removed (such as a binding strip or a file hanger)



To adjust the Trailing Edge, use the arrows to denote the quantity you wish to add or remove.

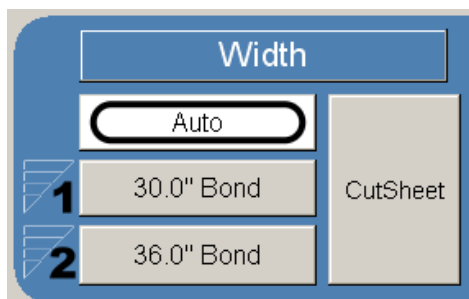
Touch the value displayed area to reset the quantity.



Make any of the required adjustments / selections and press "OK" to accept. The selections will now be displayed on the main Scan screen.

## 2.6 Width

This region allows automatic or manual roll selection, roll size display, cut sheet media, the roll amount remaining and to set the installed media type and width.





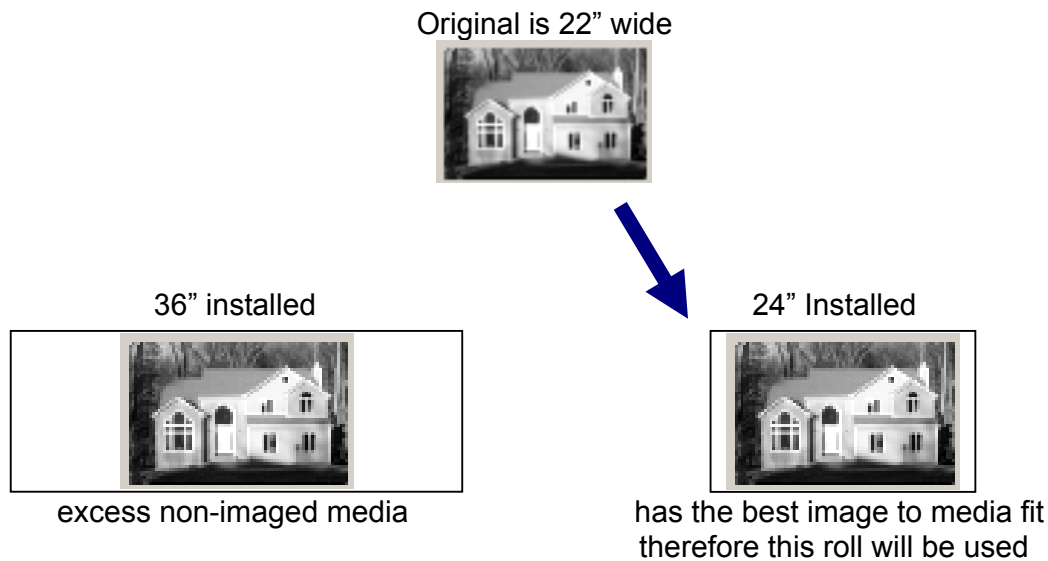
### 2.6.1 Auto

This default setting allows the copier to automatically select the best media roll width to print the image onto. It selects the roll noting the amount of image area to prevent surplus media consumption. (applies to the option - two or more roll model)

Example:

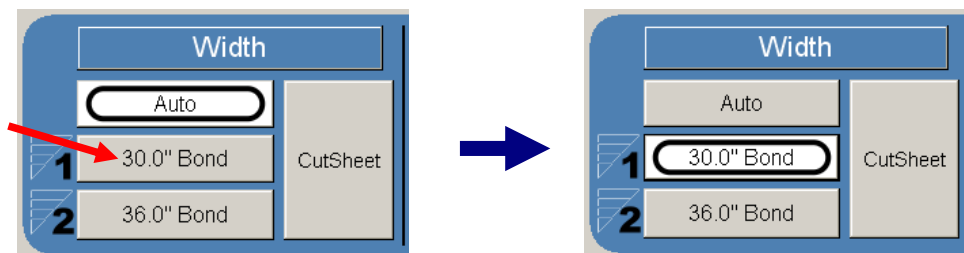
22" original

36" and 24" bond media installed



### 2.6.2 Manual Roll Selection

To select a roll deck, press the roll deck desired. Note that the roll information is displayed in the roll deck button.



### 2.6.3 Enabling Cutsheet

Some KIP printers are equipped with a cut sheet feeder that can be enabled in the configuration menu of the UI.

This can be accomplished by following these steps

1. Select the (?) button in the bottom left corner of the user interface.



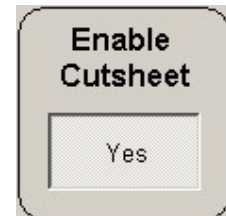
2. Select the Configuration button from the Info/Help screen.



3. Using the Left/Right arrows located at the bottom of the page scroll to page four (4).



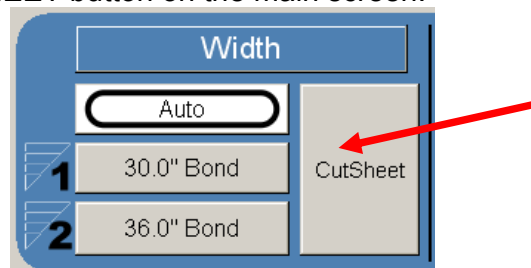
4. Change the Enable Cut Sheet button to "Yes".



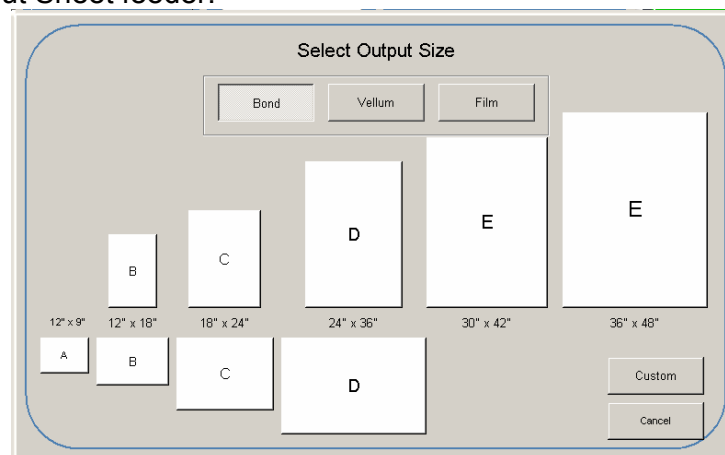
### 2.6.4 Cut Sheet

To copy onto a cut sheet of media:

- a) Select the CUT SHEET button on the main screen.



- b) Select the Output Size of the actual cut sheet paper that will be inserted into the Cut Sheet feeder.



Select desired settings from the main copy screen. Feed your original (s) into the KIP 3000.

- c) Prepare Cut Sheet Feeder on your printer and WAIT until prompted by the UI.
- d) Insert the original into the Cut Sheet Feeder.

**Note:**

Only one cut sheet may be fed at a time and this function will time out after 3 minutes if no paper is inserted.

**Note:**

**DO NOT** insert the cut sheet media into the feeder while printing from a roll deck, as this may cause the printer to jam.

### 2.6.5 Copying to Multiple Cutsheets

1. Follow steps above (2.6.4)
2. After a short period of time the Printer will beep notifying the user to insert the cutsheet into the Cutsheet feeder, the Job Info button will also flash be flashing.
3. Once the cutsheet has been printed there will be a short pause and the printer will start to beep again. Insert the next cutsheet into the printer
4. Continue for multiples.

**Note:**

Only one cutsheet may be fed at a time and will time out after 3 minutes if no paper is inserted.

**Note:**

**DO NOT** insert the cut sheet media into the feeder while printing from a roll deck, as this may cause the printer to jam.

### 2.6.6 Media Remaining

The installed roll information is displayed in the button of the particular roll deck. Beside each deck is a volume of media that currently is left on the roll of media.

Indicators will display full,  $\frac{3}{4}$ ,  $\frac{1}{2}$ ,  $\frac{1}{4}$  or empty.



### 2.6.7 Installing Roll Media

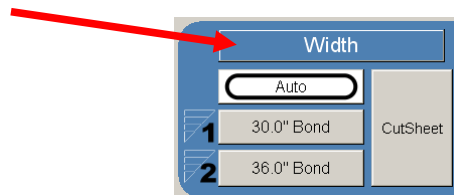
When media is replaced or installed, a screen will automatically appear. This screen allows the setting of the media type and width. Please see the KIP Printer's manual for the procedures to replace a roll of media.

- a) If no changes are required, press cancel
- b) If changes are required from the currently settings displayed, select the correct media type and size for each deck and press OK.

This screen shows 36" bond for deck one and 30" Bond for Roll 2 deck. Scroll through the media choices at the bottom of each roll. Click on the graphical scissors to trim the desired roll deck.

The 'Define Roll' screen displays two decks, labeled 1 and 2. Each deck has a grid of media width options: 36", 34", 30", 24", 22", 18", 17", 15", 12", and 11". Below the grid is a 'Bond' label and a pair of scissors icon. At the bottom right are 'OK' and 'Cancel' buttons.

Media types settings noted above can be changed at any time by pressing the Media button on the main Copy Screen.



## 2.7 Length

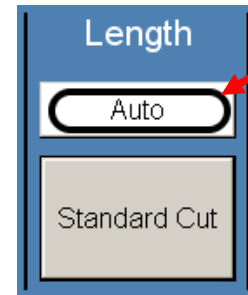
Two methods determine the length of the copy in the KIP printer. These two methods are Auto (may also be known as Synchro Cut or Automatic Cut) and Standard Cut.

### 2.7.1 Auto

This mode allows the media length to be determined by the original length. This also takes into consideration any enlargements or reductions that are applied to an image as well, to prevent excess media without image.

#### ! NOTE

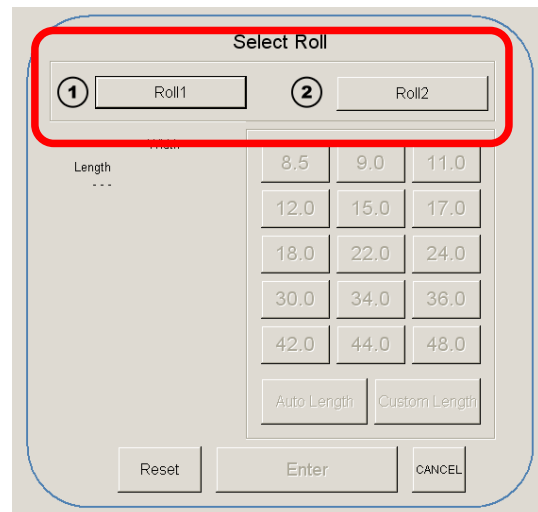
Auto Length works in conjunction with Auto Roll noted in 2.6.1.



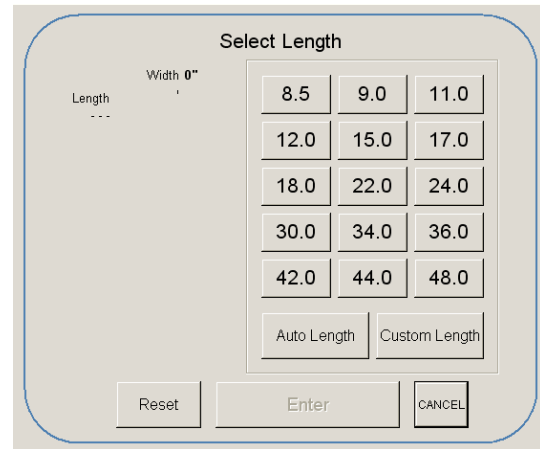
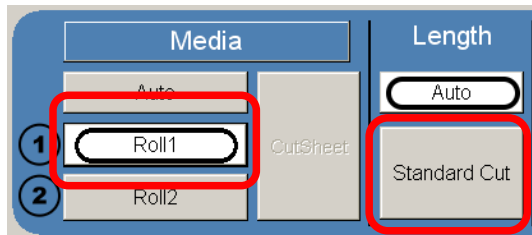
### 2.7.2 Standard

This mode allows the media length to be determined by a standard length or a length set manually by the user with a number pad.

- a) Select Standard Cut. A sub screen will appear. When Standard is used, the roll must also be selected.
- If Auto Roll is selected in the **Media** region the following screen will appear, prompting the media to be selected. Select the roll.

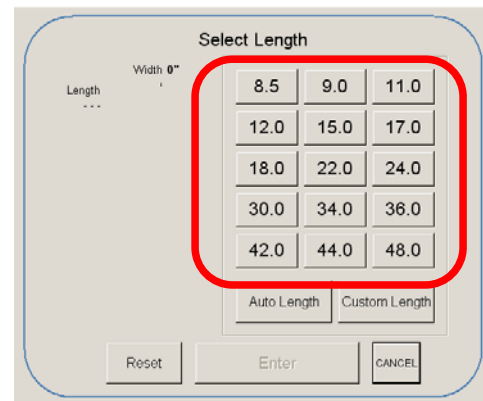


- If a roll is already selected in **Media**, then the following screen appears now only requesting the length.

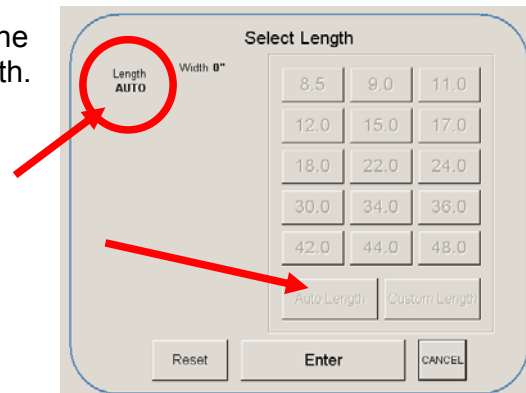


- b) Once the roll is determined (if so required) the length can now be set.
- Standard Length
  - Auto Length
  - Custom Length

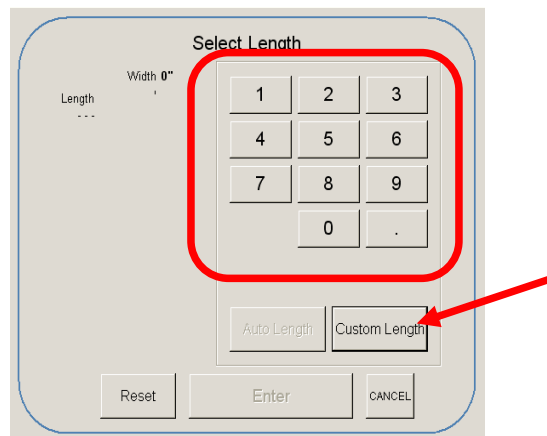
- c) **Standard** Length – use an industry standard length. Select the length and press Enter.



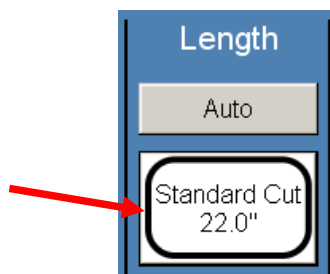
- d) **Auto** Length – uses the length of the original to determine the copy length. Select and press Enter.



- e) **Custom** Length – set the custom length in the key pad and press enter

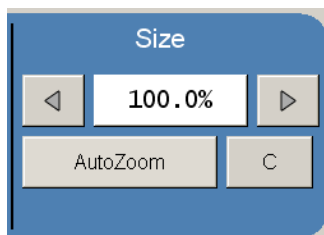


- f) The cut length will now be displayed in the main Copy screen in the Standard Cut button.



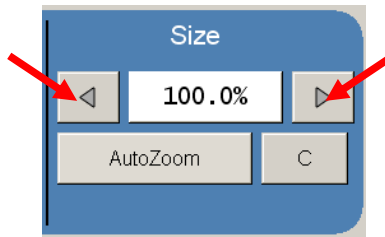
## 2.8 Size – Zoom

Image size / Zoom can be altered in this region on the UI. This includes automatic zooming, predetermined percentages, or ratio calculations to page size, and simply percentage increments.



### 2.8.1 Preset Percentages

The KIP printer has several predetermined industry standard zoom percentages used for quick access. These can be accessed with the arrow buttons.



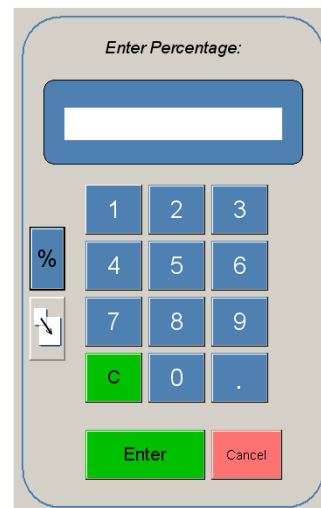
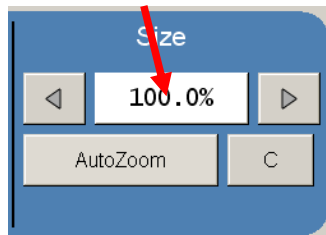
The pre-programmed percentages are:



### 2.8.2 Percentage Key Pad

To enter a percentage directly into the UI,

- Press on the Percentage value displayed (the number is a button).
- This will show a keypad to enter the value. (Please note that the button Manual on the side is a default.)



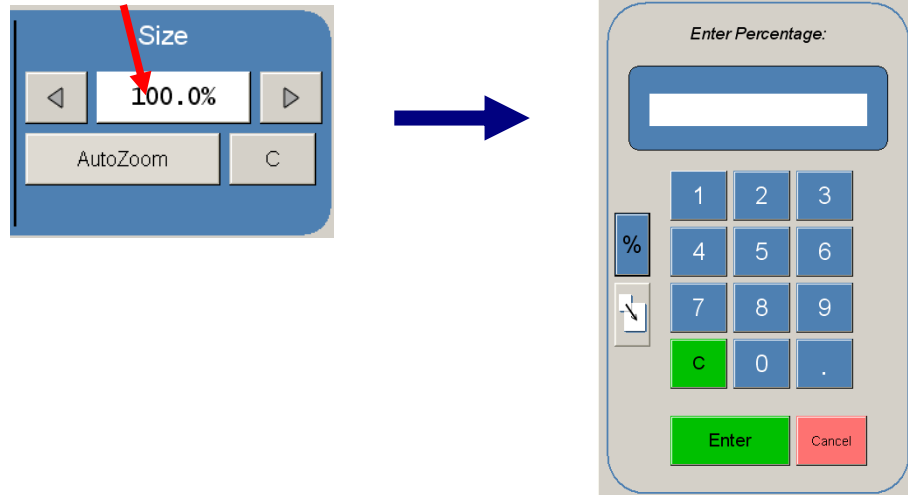
- Press the desired zoom value and press enter.



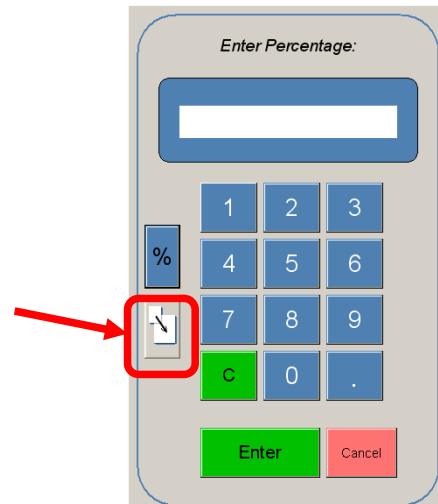
### 2.8.3 Page Size Zoom

To enter a zoom percentage based on pages sizes into the UI:

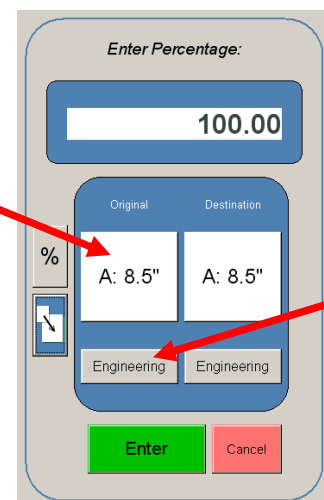
- a) Press on the Percentage value displayed (the number is a button).  
This will show a keypad to enter the value.



- b) Select Standard button.



- c) Select the original page size by pressing onto the original page size button.
- d) Please note either Engineering or Architectural mode can be utilized by pressing on the button below the original page size.
- e) Select the desired Copy page size. Again please note either Engineering or Architectural mode can be utilized.

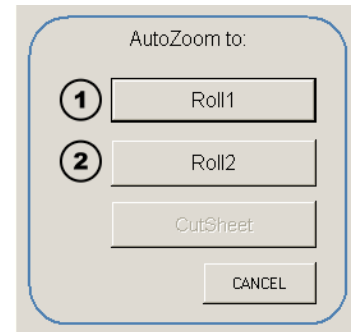
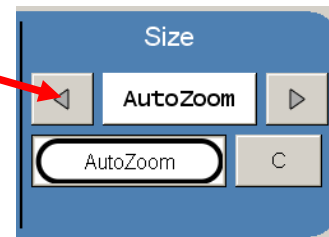


- f) Press **Enter** to confirm your selections or **Cancel** to restart.

#### 2.8.4 Auto Zoom

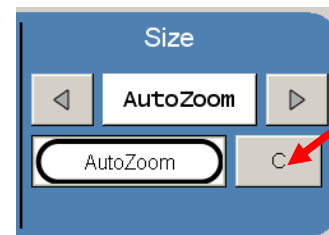
Press the Auto Zoom button to enable this function. Auto Zoom features works in conjunction with the roll selected to scale the image to the selected roll width.

- a) If a roll is selected in the Media region the zoom from the original will automatically fit the width of the selected roll.
- b) If a roll is not selected (Auto is currently selected), roll selection is requested prior to the function of Auto Zoom. If cut sheet is used then it will use the values set in the Cut Sheet button in Media.



#### 2.8.5 Clear

To reset the percentage value to default, press the "C" button.



### 2.9 Start

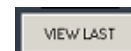
The copier is always set to "Auto Start". That is when an originally is inserted into the KIP 3000, it will start without other user intervention.

The start button is used when a job is recalled. The start button will "start" the job if depressed after 'Recall'. (The name will change to "Re-print")



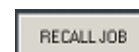
### 2.10 View Last

The last documented scanned to be copied be viewed.



### 2.11 Recall Job

The last set or single copy can be recalled to be resized or to switch media type. After a job is recalled, make the required changes and then press "Start".



## 2.12 Stop / Reset

This button has two functions.

- 1) Press the Stop button to stop the current scan. The original will be ejected automatically. If not, open Top Cover to remove the original.
- 2) Press the Reset button to restore the “default settings” in Copy Mode. Some of the default settings are determined in the Information / Help Screen of the UI. (see Copy Mode Configurations chapter)



## 2.13 Interrupt

Network printing can be interrupted between collated sets of documents. Press the Interrupt button to pause the queue and allow a more urgent file to be copied. For example if a file is needed right away and there is a job in the queue that has 20 sheets and 10 sets are being printed this can be interrupted when one of the sets finishes printing. After the urgent file is printed the sets will continue to print.

Interrupt

## 2.14 Rescan

This button only appears when “Set Copy” mode is enabled. It allows a user to rescan an original in a set as required. This may be due to skew or incorrect image quality settings of the previous scan.

ReScan

## 2.15 Log Off

This button only appears when “Accounting” functions are enabled. This allows the current user to cease all KIP printer functions after the user has performed the required copies. (after the code was entered to enable Copying)

Log Off

Please note that the KIP printer will also automatically logoff from the current user after 180 seconds of no copy function activities by a user.

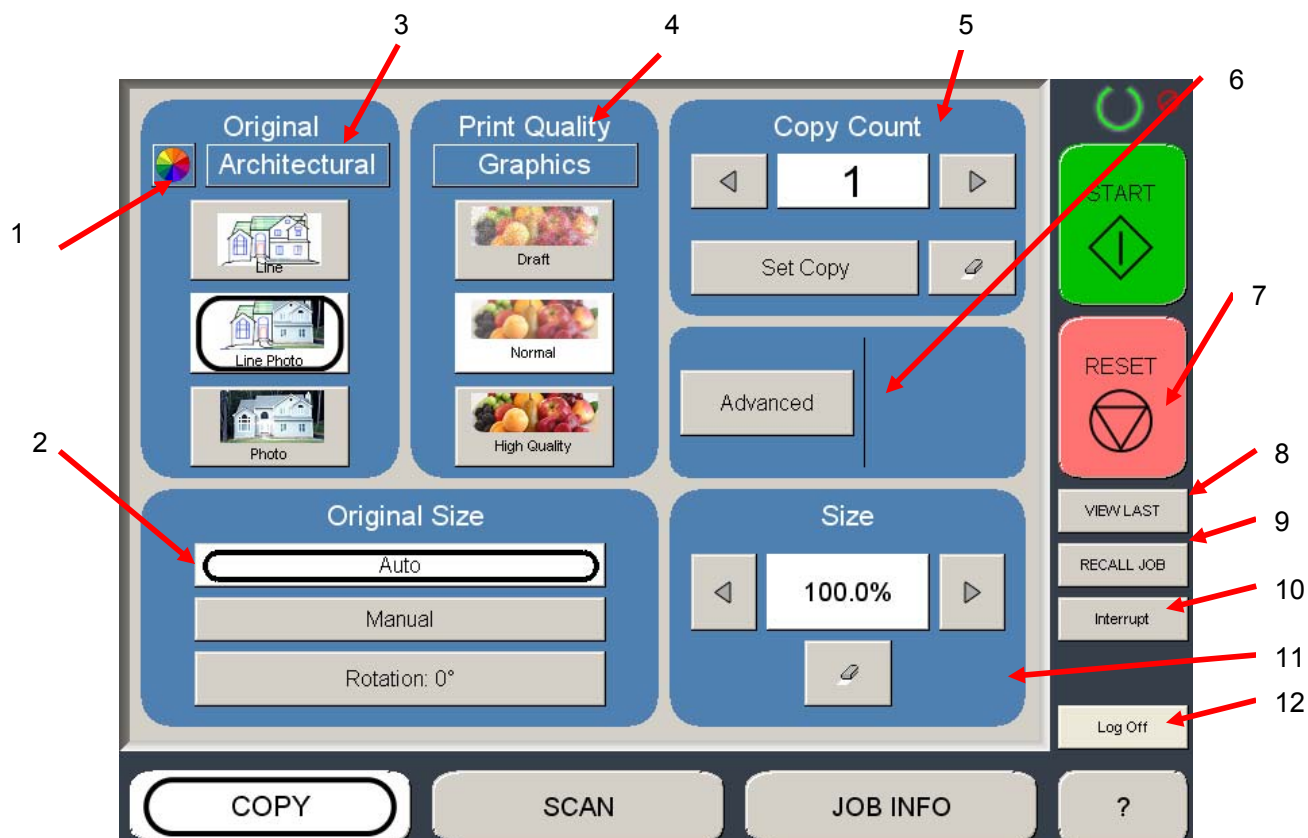
## Section 3

# Copy Mode - Color

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# 1.0 Copy Mode - Color

## 1.1 Main Screen - General



No.	Name	Function
1	Mode	Select Color Mode from Mono Mode
2	Original Size	Select the size of the original in length and rotation
3	Original Type	User Selects the type of original to copy. Also select Eng/Arch Modes here.
4	Print Quality	Select the calibrated Quality (must be calibrated prior to use)
5	Copy Count	Select the quantity of prints and sets designation.
6	Advanced Settings	Invert , mirror, stamps, folds, and edge adjustments preformed / displayed in this button (sub screen)
7	Reset	Clears the image buffer and resets the system to default settings.
8	View Last	The last scan / job can be viewed
9	Recall Job	Images can be recalled from the last job for reprint. Please note that a time limit may be set to recall or this feature may be disabled by the administrator to prevent any unauthorized copies.
10	Interrupt	Pauses the network print jobs to print any copy jobs
11	Zoom	Manual and automatic zoom ratios set.
12	Log Off	Displayed if Accounting enabled to Log off current user

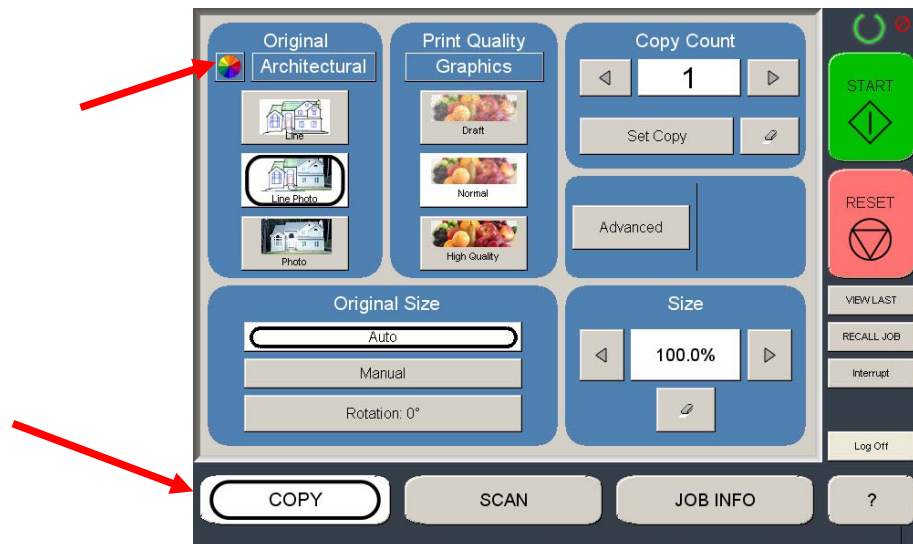
## 1.2 Simple Copying

To copy, please follow these basic steps. The following chapters have details on adjustments and parameters that the user can change to modify the copies as required.

**Please note that a third party color printer, supported by KIP, must first be calibrated in the “?” screen under the “Color Config” button. Please see the “?” Section.**

### 1.2.1 Select Copy Mode

On the lower region of the Operator Panel select “COPY” and then press the Color button if not already selected.



### 1.2.2 Select Size Mode

Select whether the document is an engineering or architectural size document. This will allow the automatic width detection to function.

Engineering widths = 34, 22, 17, 11, and 8.5 inches  
Architecture widths = 36, 30, 24, 18, 12, and 9 inches



### 1.2.3 Select Original Image Type - Input

Set the original image type you will copy. The selections are:

- Line - used for simple color line documents
- Line / Photo - used for a combination of lines & photos color documents
- Photo - used for color photographic originals

This will allow automatic image quality adjustments for the scan.



### 1.2.4 Print Quality - Output

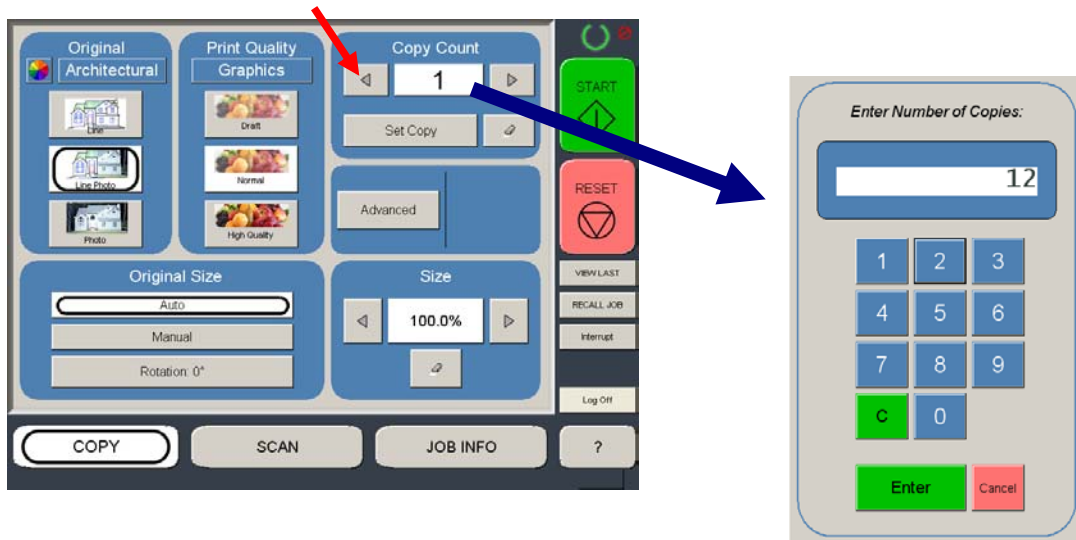
The model of third party color printer will determine on the available Print Quality. Select “Graphics” or “Line Art” mode and then select “Draft, Normal or High Quality” mode for the printer.



Please note that each Print Quality mode must be calibrated prior to its use. Please see Color Calibration in the “?” screen for greater details.

### 1.2.5 Copy Count

Press the arrow buttons to scroll through the number of copies required **or** press on the actual number to set the quantity with the number pad.



### 1.2.6 Original Size

This selects automatic (for best possible fit) or manual page size selection.

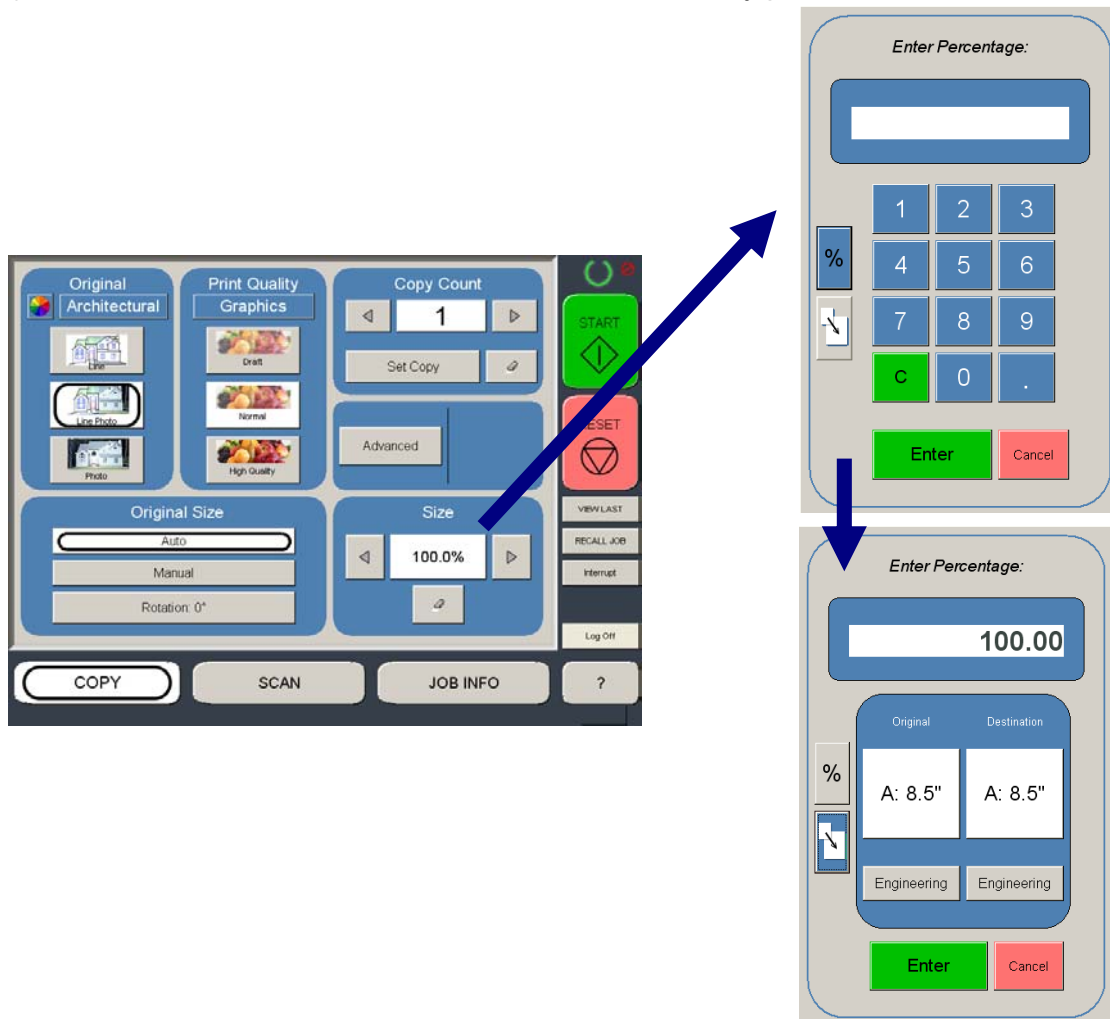




### 1.2.7 Size

Select

- a) AutoZoom to automatically zoom to the width of paper or
- b) Press the arrow keys to scroll through presets ratios or
- c) Press on the Zoom number to enter a ratio on the key pad



### 1.2.8 Insert Original

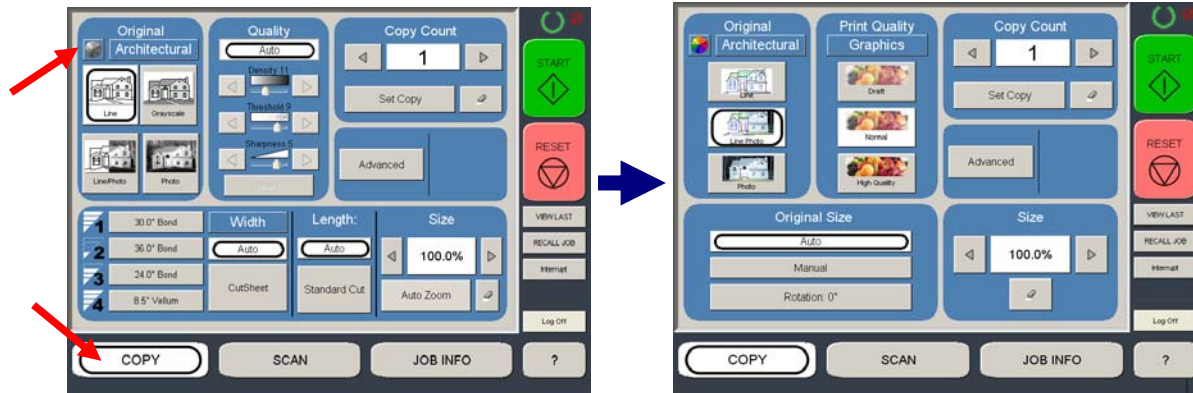
Using the guides on the feed table, center the original face up and push forward until the KIP 3000 accepts it.

The KIP 3000 will automatically commence to copy. While this occurs the image will be displayed on the Operator Panel for your reference.

## 2.0 Operation Details

### 2.1 Main Screen

The main Copy Color screen is selected with the Copy Button in the lower bar, then use the Mono / Color button in the upper left corner to select Color Mode.



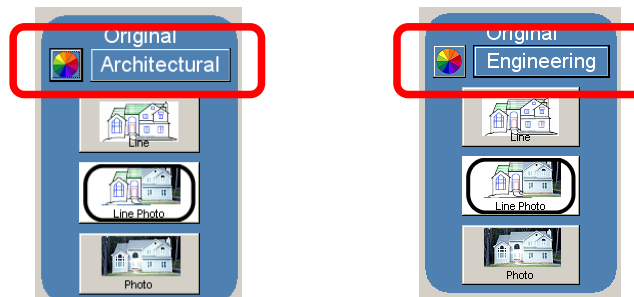
The following pages detail the functions and settings of each button and sub screen that can be used to adjust the color copy mode.

### 2.2 Original

This region allows the setting of the Size Mode (Engineering or Architectural) and the original image type.

#### 2.2.1 Original Size Mode

This button is used to select the Size Mode of Engineering or Architectural.



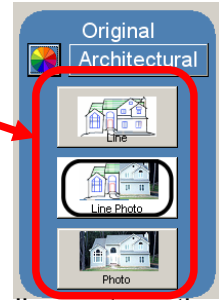
This will allow the automatic width detection system to determine the image width when an original is placed in the KIP 3000.

**Engineering widths = 34, 22, 17, 11, and 8.5 inches**  
**Architectural widths = 36, 30, 24, 18, 12, and 9 inches**

### 2.2.2 Original Type - Input

Select one of the three different predetermined original types. The selections are:

- a) Line - used for simple color line documents
- b) Line / Photo - used for a combination of color lines & photos
- c) Photo - used for color photographic originals



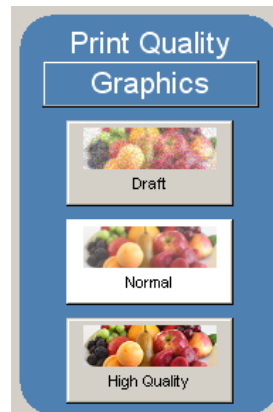
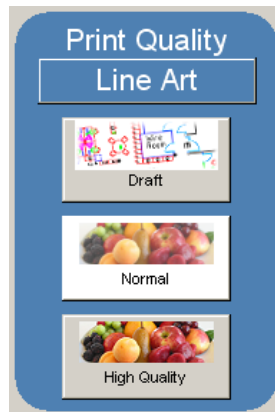
Press the desired original setting from one of the three diagrams. This will allow automatic image quality adjustments for the scan. Please note that the selection will be highlighted with a “black circle” and the icon will become white, as in the above example “Line/Photo”.

## 2.3 Print Quality - Output

This region is used to change the image quality settings on the third party printer.

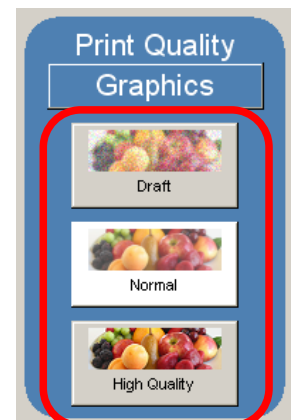
### 2.3.1 Line / Graphic Mode

The device you will copy to will determine the best setting. Each Quality mode has three sub modes. Each mode must be calibrated prior to use. Please see Color Calibration in the “?” screen.



### 2.3.2 Draft / Normal / High Quality

This controls the settings of the printer and which mode of image quality will be used on the printer. Please see third party printer guide for details.



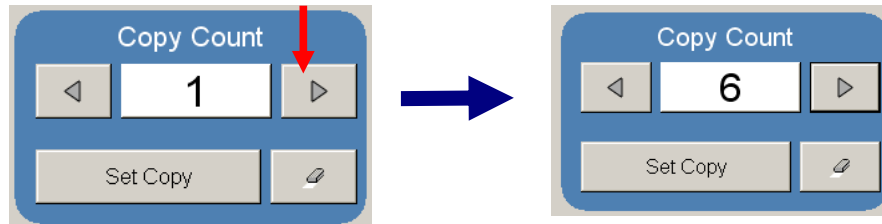
## 2.4 Copy Count

In this region the number of copies, and set copy / collation can be set.

### 2.4.1 Arrows - Count Increase / Decrease

Use the arrows to increase or decrease the total numbers of copies desired by one with each press of the button.

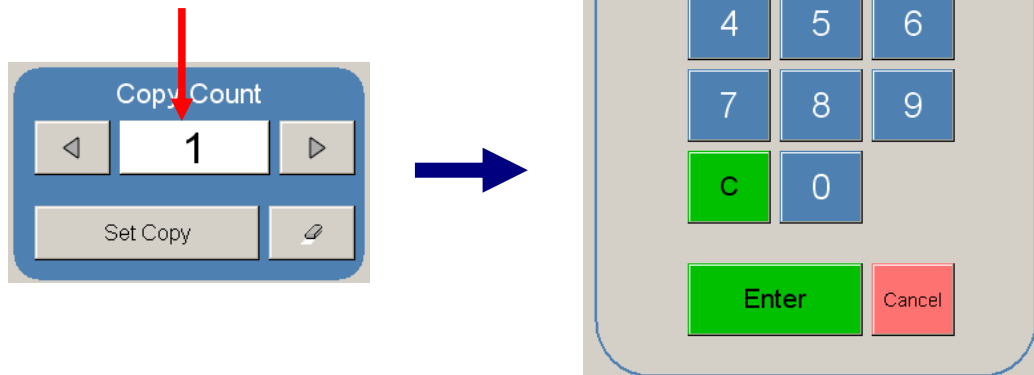
In this example the arrow was press **five times** to reach “6 copies”.



### 2.4.2 Number Pad - Count Increase / Decrease

Press the “number of copies” value (which is a button) to set the desired number of copies using a number pad. This will allow the quick entry of larger numbers.

- Press the numbers for the quantity desired. (up to 999)
- Select “Enter”.
- If an entry error was made press “C” to start again.
- If you wish to close the screen without changing the quantity press “Cancel”.

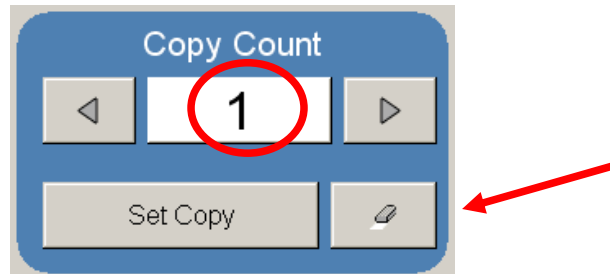


### 2.4.3 Set Copy

Has no function in Color Copy Mode.

### 2.4.4 Clear

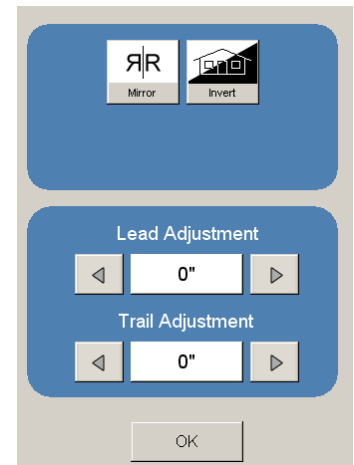
Press the “eraser” button to reset the quantity to “1”.



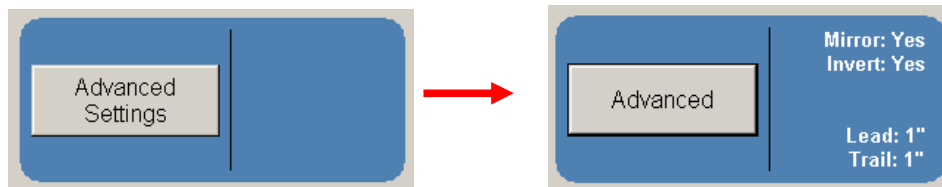
## 2.5 Advanced Settings

The Advanced Setting button contains the additional parameters on a sub screen:

- a) Mirror
- b) Invert
- c) Lead Edge Adjustment
- d) Trail Edge Adjustment



When any of the adjustments / selections is selected, the selections will now be displayed on the main Copy screen.



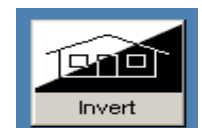
### 2.5.1 Mirror

Select this button to “mirror” a scan. This can be utilized on originals that have the actual image on the reverse side such as older “sepia” or “film” documents.



### 2.5.2 Invert

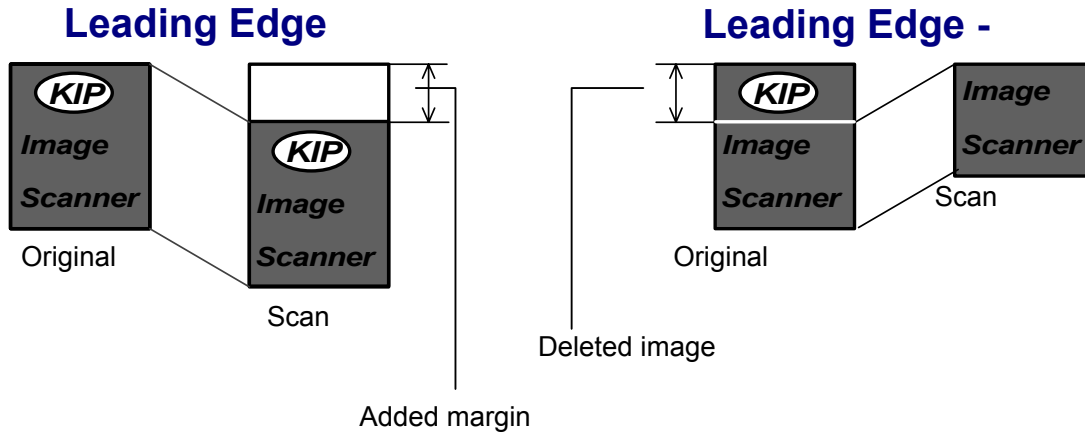
Select this button to change a region of white to black and visa versa of a scanned document. This is normally used for “negative” documents or “blue prints”.



### 2.5.3 Leading Edge Adjustment

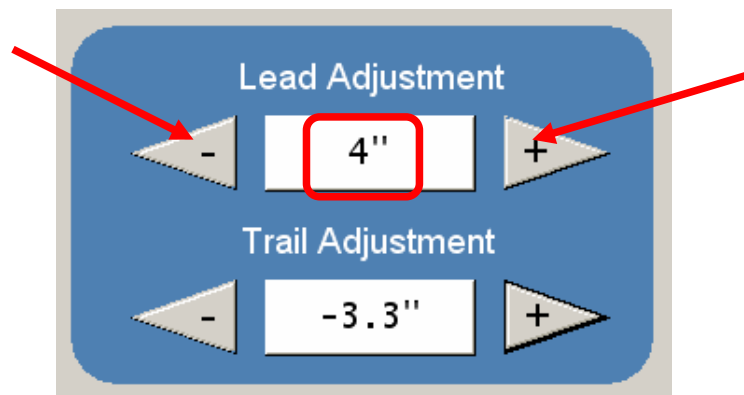
The leading edge of a copy can be altered. ( +/- 4" )

- a) additional void area can be placed on the lead edge of a scan or
- b) image can be removed (such as a binding strip or a file hanger)



To adjust the Leading Edge, use the arrows to denote the quantity you wish to add or remove.

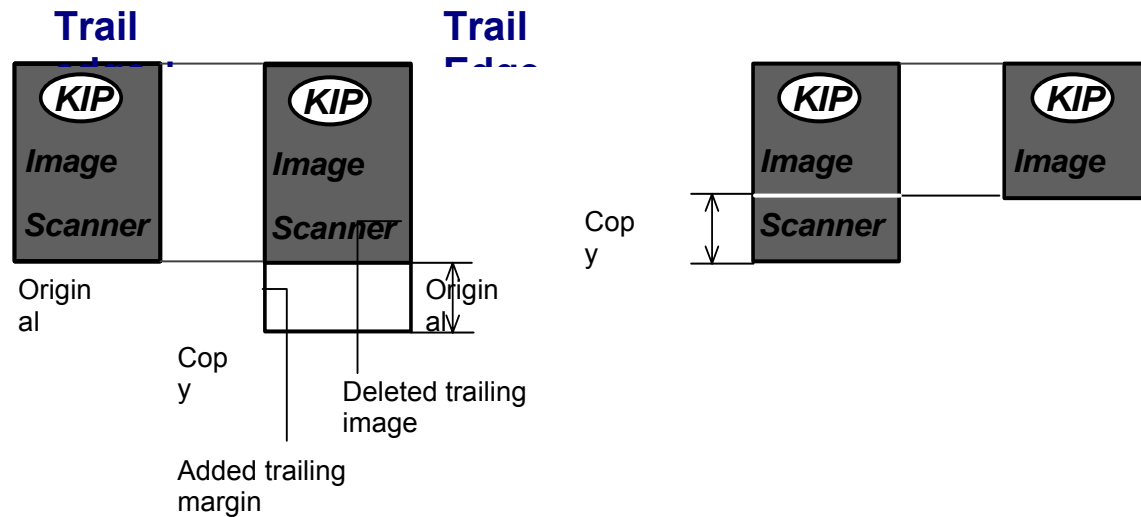
Touch the value displayed area to reset the quantity.



#### 2.5.4 Trailing Edge Adjustment

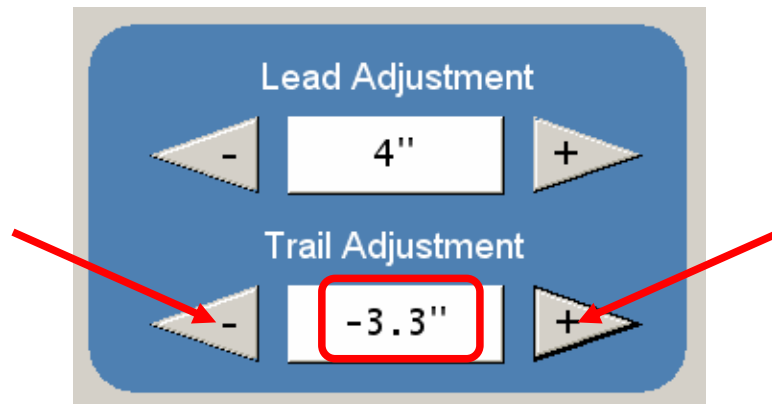
The trailing edge of each copy can be altered. (  $\pm 4$  )

- a) Additional void area can be placed on the bottom of a copy or
- b) Image can be removed (such as a binding strip or a file hanger)



To adjust the Trailing Edge, use the arrows to denote the quantity you wish to add or remove.

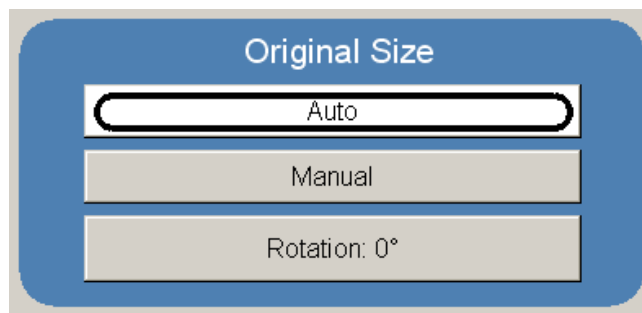
Touch the value displayed area to reset the quantity.



Make any of the required adjustments / selections and press "OK" to accept. The selections will now be displayed on the main Scan screen.

## 2.6 Original Size

This region allows automatic or manual roll detection of the original.

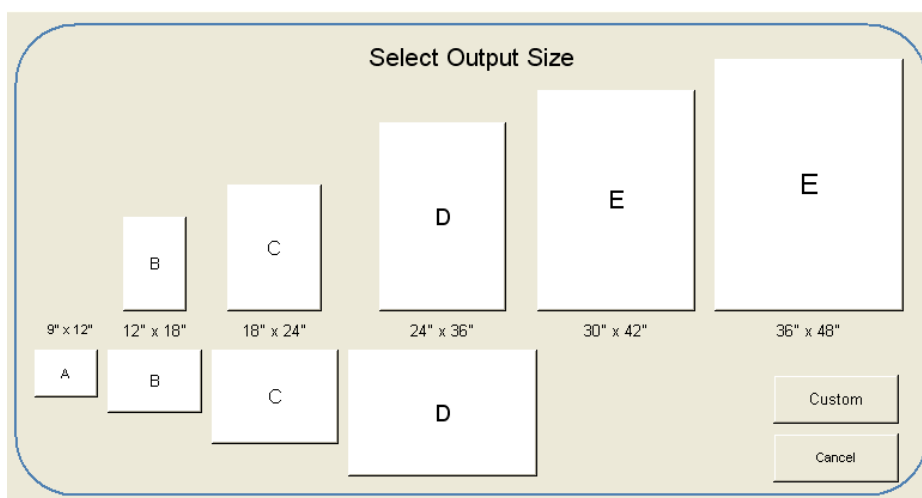


### 2.6.1 Auto

This default setting allows the KIP 3000 to automatically detect the width and length of the original. Please note the correct "Original Size Mode" in 2.2.1 must be select prior to the copy.

### 2.6.2 Manual

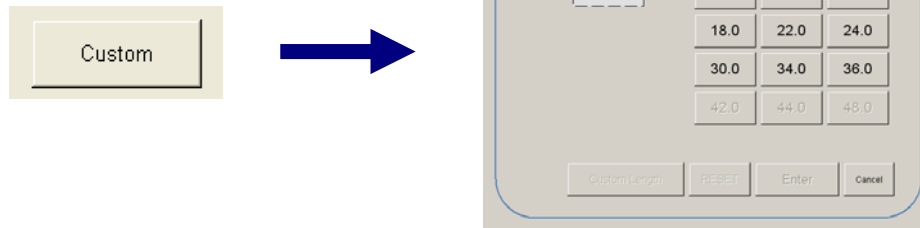
To select an original size manually, select Manual and a sub screen displays all current standard page sizes.



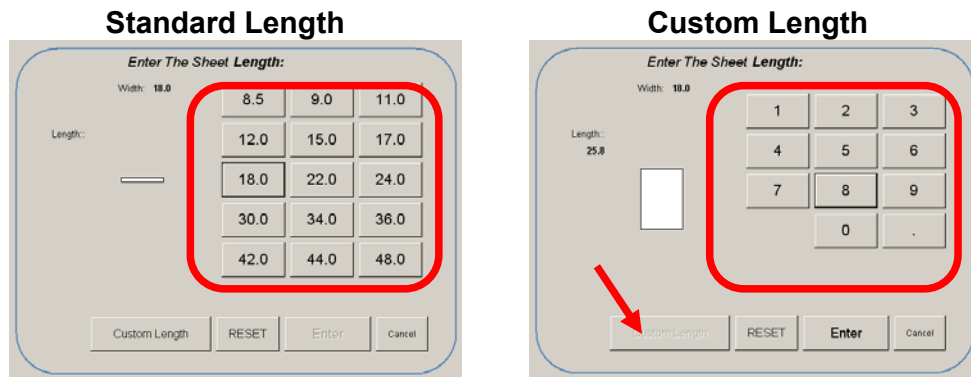


### 2.6.3 Custom

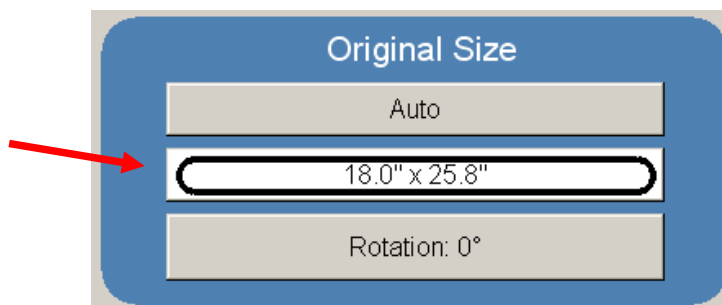
This mode allows the original width and length to be determined by the number pad.



- Set the width of the scan. Note that these are only Standard Sizes.
- Set a Standard Length or Custom Length – set the Custom length in the key pad and press enter.



- The cut length will now be displayed in the Manual button. In this example 18" width and a custom length of 25.8".



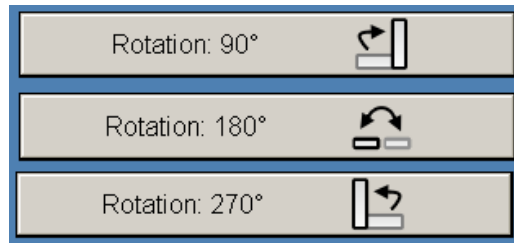
### 2.6.4 Rotation

Select the rotation to save copy media. This function may be void dependent on the third party printer ability in media width and auto rotate function programmed in the printer.

Example:

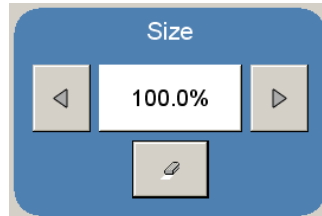
D Size copy may waste less media if printed 36" wide (if the printer so supports this size and is installed in the printer) rather than 24" wide. If the user wishes to scan the document 24" and then select a 270 degree or 90 degree rotation to print 36" width rather than 24" this can save media.

Rotation available:



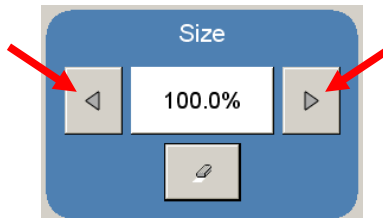
## 2.7 Size – Zoom

Image size / Zoom can be altered in this region of the KIP operator panel. This includes automatic zooming, predetermined percentages, or ratio calculations to page size, and simple percentage increments.



### 2.7.1 Preset Percentages

The KIP has several predetermined industry standard zoom percentages used for quick access. These can be access with the arrow buttons.



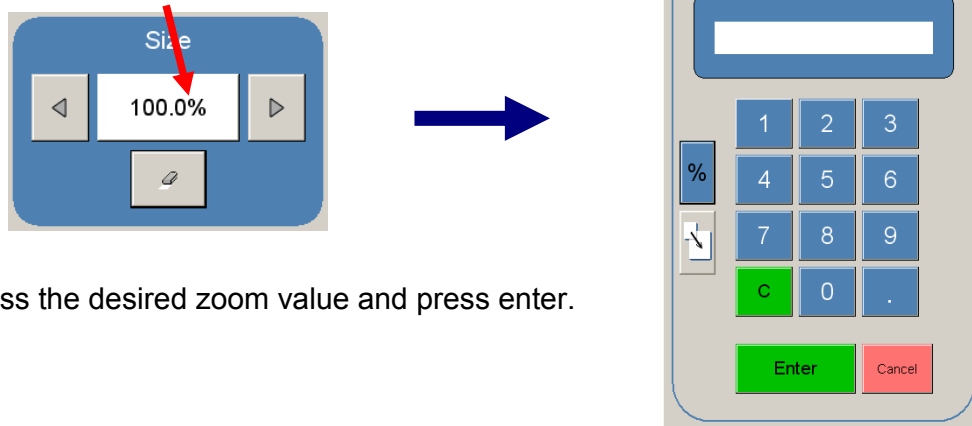
The pre-programmed percentages are:

25.0% → 50 - 66.7 - 70.7 - 100 - 141 - 150 - 200 → 400.0%

### 2.7.2. Percentage Key Pad

To enter a percentage directly:

- Press on the Percentage value displayed (the number is a button).
- This will show a keypad to enter the value (please note that the button Manual on the side is a default).

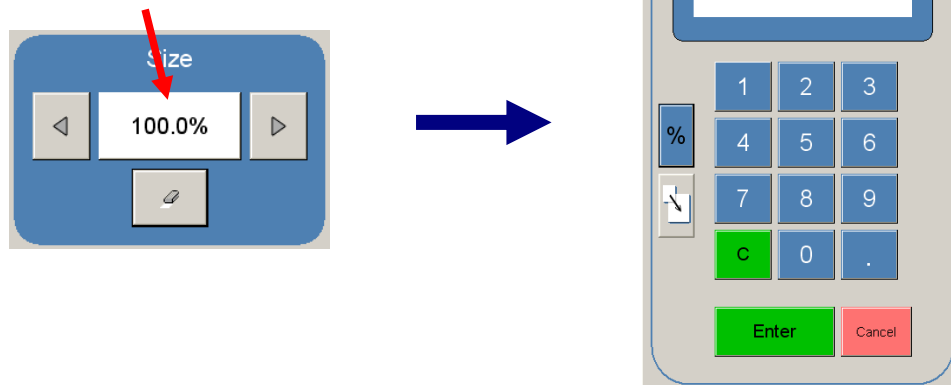


- Press the desired zoom value and press enter.

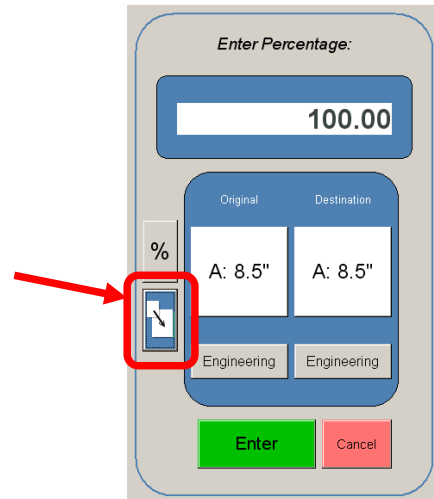
### 2.7.3. Page Size Zoom

To enter a zoom percentage based on pages sizes into the UI:

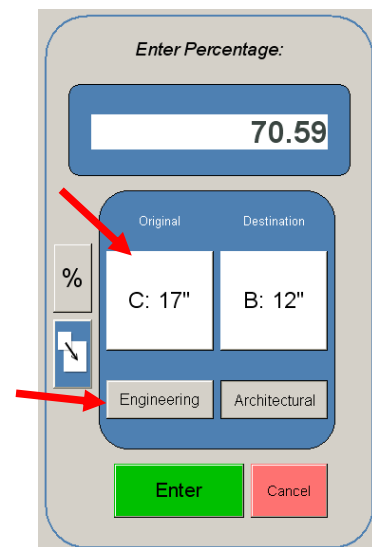
- Press on the Percentage value displayed (the number is a button). This will show a keypad to enter the value.



b) Select Standard button.

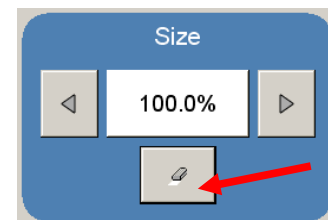


- c) Select the original page size by pressing onto the original page size button.
- d) Please note either Engineering or Architectural mode can be utilized by pressing on the button below the original page size.
- e) Select the desired Copy page size. Again please note either Engineering or Architectural mode can be utilized.
- f) Press **Enter** to confirm your selections or **Cancel** to restart.



#### 2.7.4. Clear

To reset the percentage value to default, press the “erase” button.



## 2.8. Start

The copier is always set to “Auto Start”. When the original is inserted into the KIP 3000 scanner, the process will begin without further user intervention.

The start button is used when a job is recalled. The start button will “start” the job if depressed after ‘Recall’ (the name will change to “Re-print”).



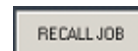
## 2.9. View Last

The last documented scanned to be copied be viewed.



## 2.10. Recall Job

No function in Color Copy Mode.



## 2.11. Stop / Reset

This button has two functions.

- 1) Press the Stop button to stop the current scan. The original will be ejected automatically. If not, open Top Cover to remove the original.
- 2) Press the Reset button to restore the “default settings” in Copy Mode. Some of the default settings are determined in the Information / Help Screen of the UI. (see Copy Mode Configurations chapter)



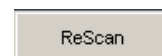
## 2.12. Interrupt

No function in Color Copy Mode.



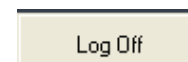
## 2.13. Rescan

No Function in Color Copy Mode.



## 2.14. Log Off

This button only appears when “Accounting” functions are enabled. This allows the current user to cease all KIP functions after the user has preformed the required copies (after the code was entered to enable Coping).



Please note that the KIP printer will also automatically log off the current user after 180 seconds of no copy function activities by a user.

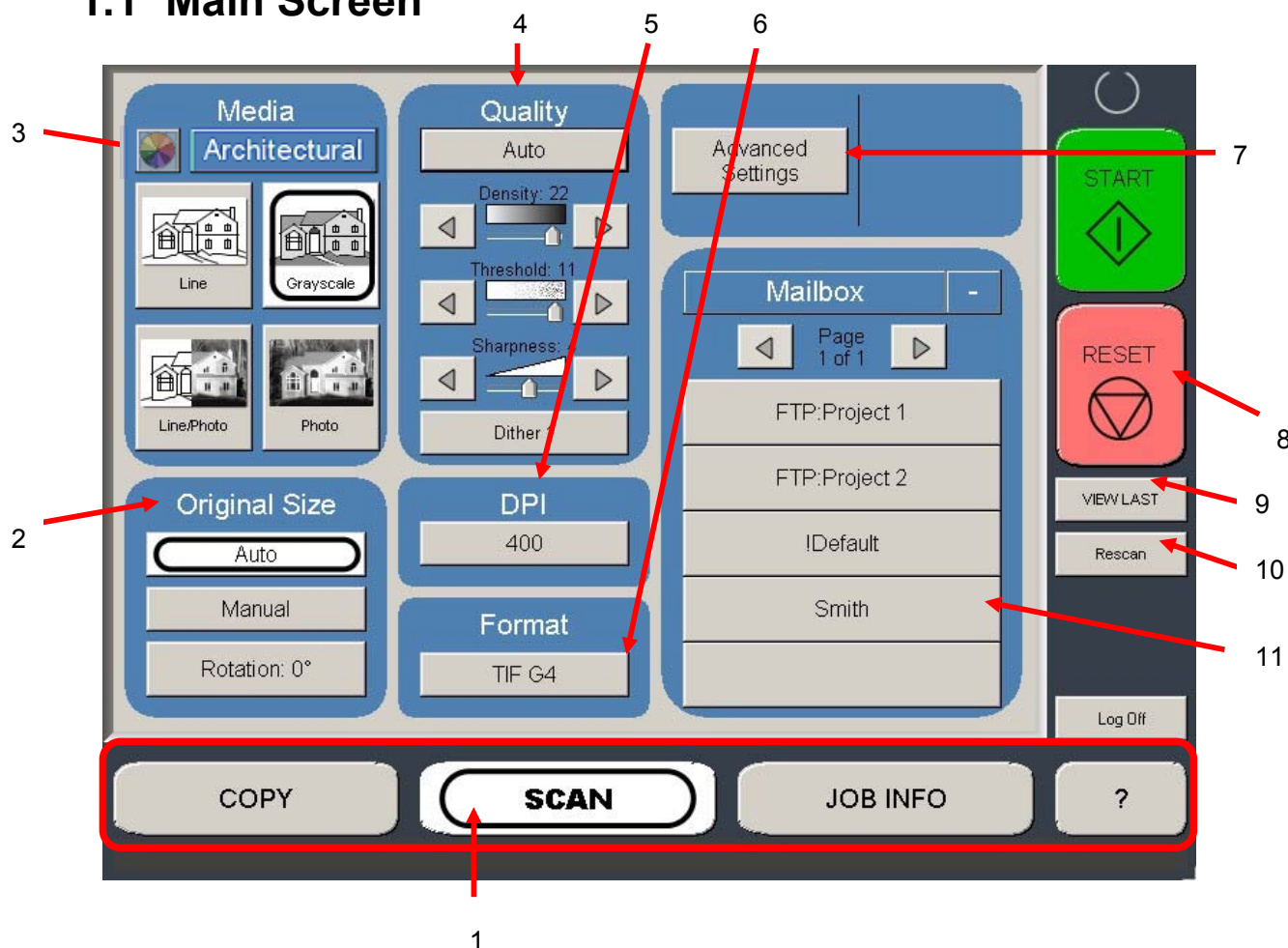
## Section 4

# Scan Mode - Monochrome

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# 1.0 Scan Mode - Monochrome

## 1.1 Main Screen



No.	Name	Function
1	Mode	Selects the "Mode" of the system. (Scan Mode for this screen shown)
2	Original Size	Use automatic settings or manually set width, length and rotation of the images.
3	Original Type	User Selects the type of original to scan. Also select either Eng/Arch Mode here.
4	Quality	Select Auto or Manual image adjustments
5	DPI	Scroll through final image resolution. (DPI)
6	Format	Scroll through formats the scanned file will be saved to.
7	Advanced Settings	Invert, mirror, stamps, and edge adjustments preformed / displayed in this button (sub screen)
8	Reset / Stop	Resets the system to default settings. Stops a scan in process
9	Mailbox	Select where the image will be stored after the scan (KIP printer, FTP, LAN PC etc).
10	View Last	View the last scanned image
11	Rescan	Rescans the last image (replaces)

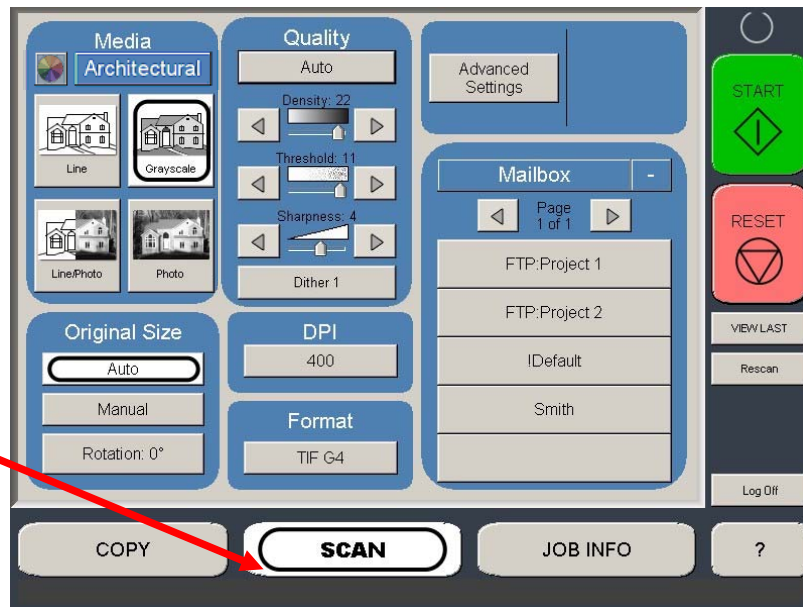
## 1.2 Simple Scanning

To scan to file, please follow these basic steps.

The following chapters have details on adjustments and parameters that the user can change to modify the scans.

### 1.2.1 Select Scan Mode

On the lower region of the UI, select “SCAN”.

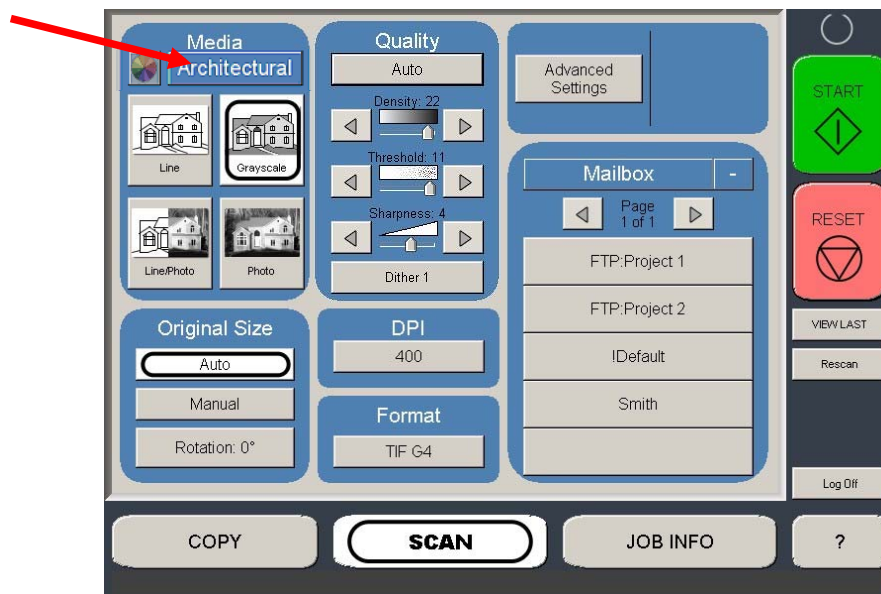


### 1.2.2 Select Size Mode

Select whether the document is an engineering or architectural size document. This will allow the automatic width detection to function.

Engineering widths = 34, 22, 17, 11, and 8.5 inches

Architecture widths = 36, 30, 24, 18, 12, and 9 inches



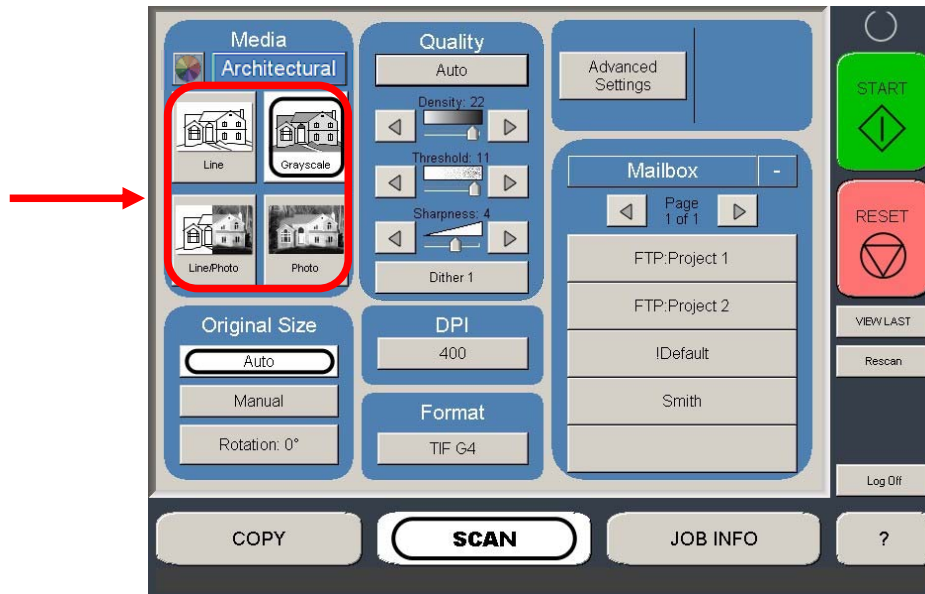


### 1.2.3 Select Original Image Type

Set the Original Image type you will scan. The selections are:

- Line - used for simple line documents
- Line / Photo - used for a combination of lines & photos documents
- Grayscale - used for a combination of lines & areas of shade (CAD) originals
- Photo - used for photographic originals

This will allow automatic image quality adjustments for the scan.

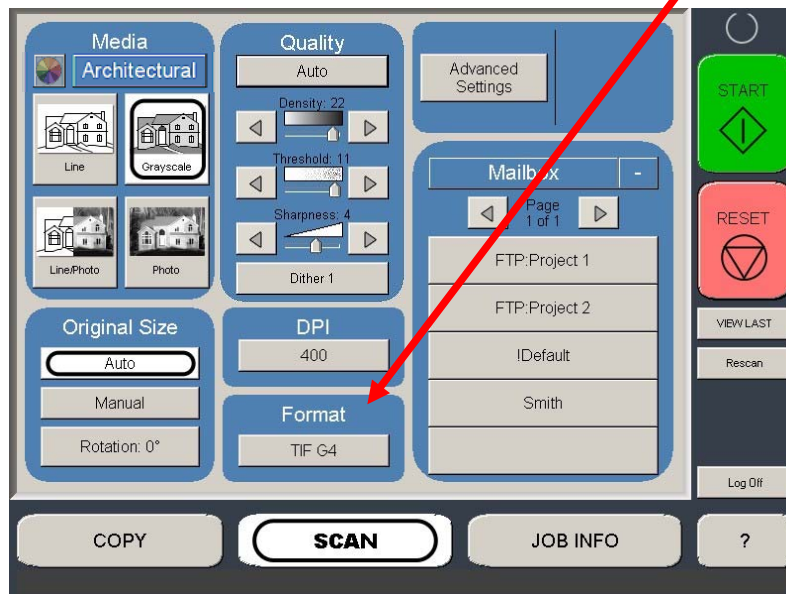


## 1.2.4 Select Format

Press the button to scroll through the file formats available.

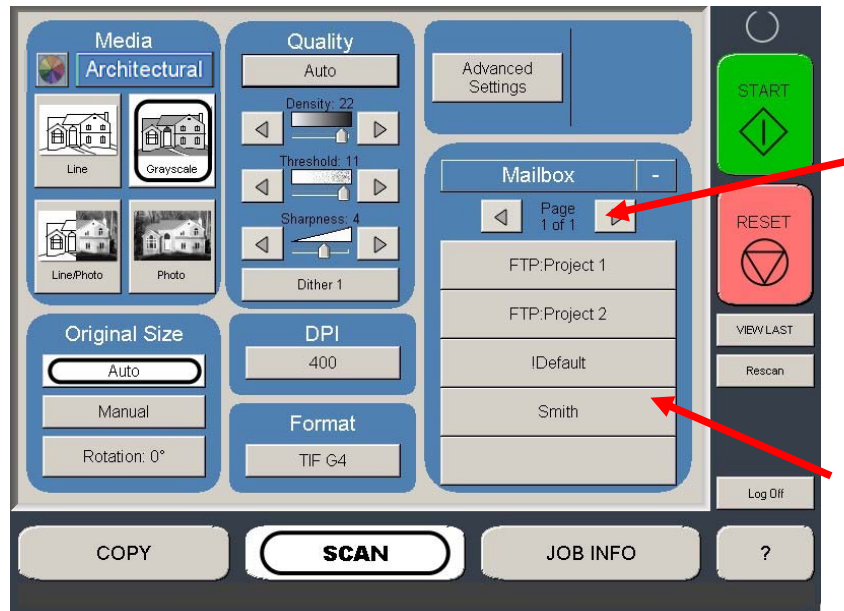
TIF-G4	- tif format Group 4 level compressed
TLC	- KIP format compressed
CAL-G4	- Cals Group 4 level
PDF	- PDF Level 3
DWF	- Design Web Format (AutoCAD)
Multipage TIF-G4	- Tif format Group 4 level compressed
Multipage PDF	- PDF Level 3
Multipage DWF	- Design Web Format (AutoCAD)

Select the type you require which will save the file in this format.



### 1.2.5 Select Mailbox

Select the location to where the file will be saved. Use the “Page Arrows” to view other choices currently available.



#### NOTE

The Mailboxes are predetermined by the system administrator or key operator. Please contact these persons for any additional locations that you may require. The “Mailbox” button will allow for additional location entries.

### 1.2.6 Insert Original

Using the guides on the feed table, center the original face up and push forward until the KIP 3000 accepts it.

The KIP 3000 will automatically commence to scan. While this occurs the image will be displayed on the Operator Panel for your reference.

### 1.2.7 Retrieve the File

Depending on the “Mailbox” you may now access your scan from a PC connected to the LAN. This includes:

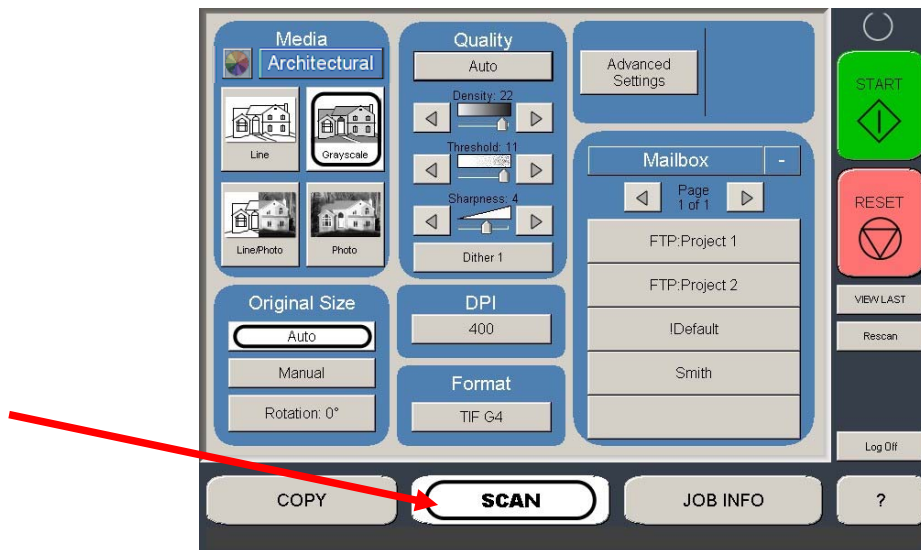
- from a FTP site (using Microsoft Windows Internet Explorer or other FTP software)
- from the “KIP IPS Mailbox” utilizing “KIP Request” to access the document.
- from SMB location on a remote network server or workstation

Please see the User Guides of these applications for details on their function.

## 2.0 Operation Details

### 2.1 Main Screen

The main SCAN screen is selected with the Scan Button.



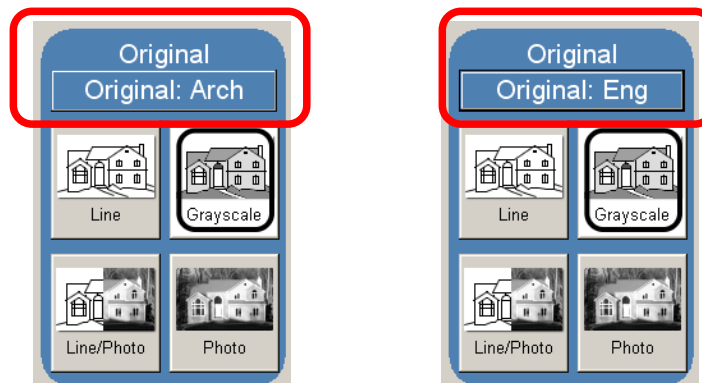
This screen contains all user functions for scanning to file. The following pages detail the functions and settings of each button and sub screen that can be used to adjust the scan parameters to achieve the required result.

### 2.2 Original

This region allows the setting of the Size Mode (Engineering or Architectural) and the Original Document type.

#### 2.2.1 Original Size Mode

This button is used to select the Size Mode of Engineering or Architectural and Original Image type.



This will allow the automatic width detection system to determine the image width when an original is placed in the KIP 3000.

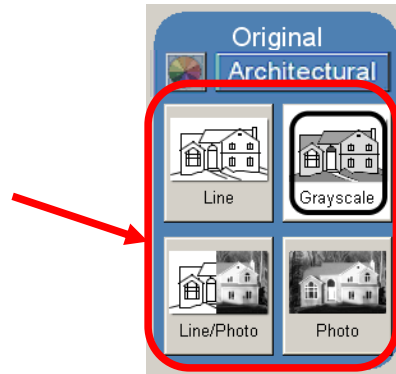
**(Eng)** Engineering widths = 34, 22, 17, 11, and 8.5 inches

**(Arch)** Architecture widths = 36, 30, 24, 18, 12, and 9 inches

### 2.2.2 Original Type

Select one of the four different predetermined original types. The selections are:

- |                 |  |
|-----------------|--|
| a) Line         | - used for simple line documents                                   |
| b) Line / Photo | - used for a combination of lines & photos documents               |
| c) Grayscale    | - used for a combination of lines & areas of shade (CAD) originals |
| d) Photo        | - used for photographic originals                                  |



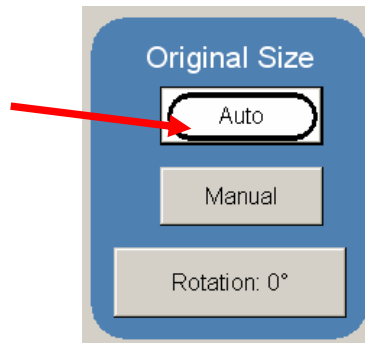
Press the desired original setting from one of the four diagrams. This will allow automatic image quality adjustments for the next scan. Please note that the selection will be highlighted with a “black” circle and the icon will become white, as in the above example “Grayscale”.

## 2.3 Original Size

This region is used to select the image size of the original being scanned.

### 2.3.1 Automatic Size

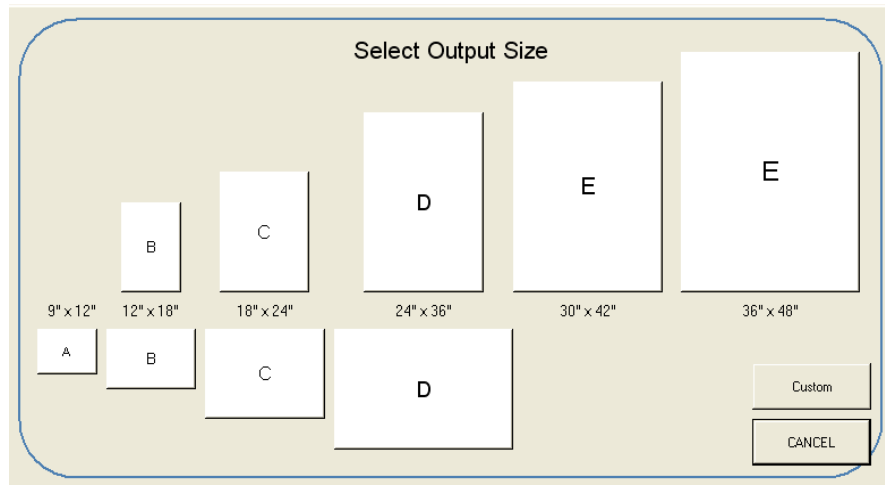
For most scans, “Automatic” should be selected. This will allow the KIP 3000 to automatically determine the width and length of the scan without any user intervention. (Please also note “Original Size Mode” in 2.2)



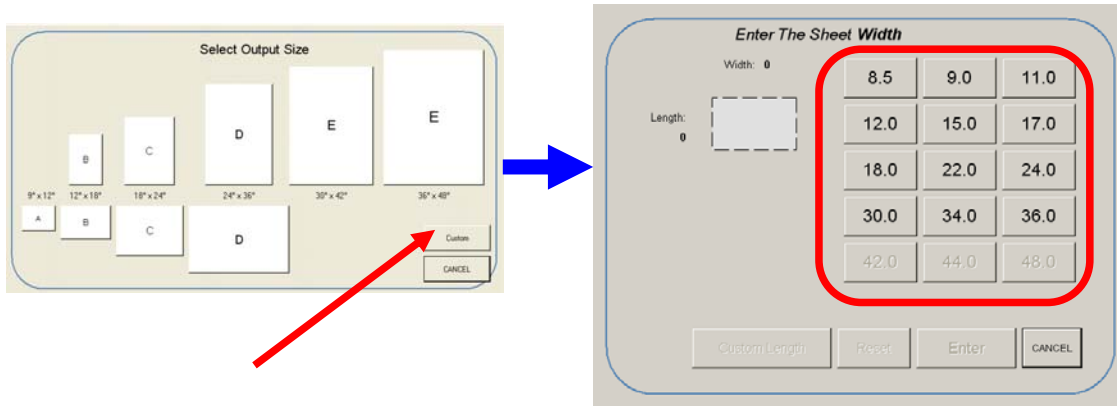
### 2.3.2 Manual Size

To select an original size manually, select Manual and a sub screen displays all current standard page sizes.

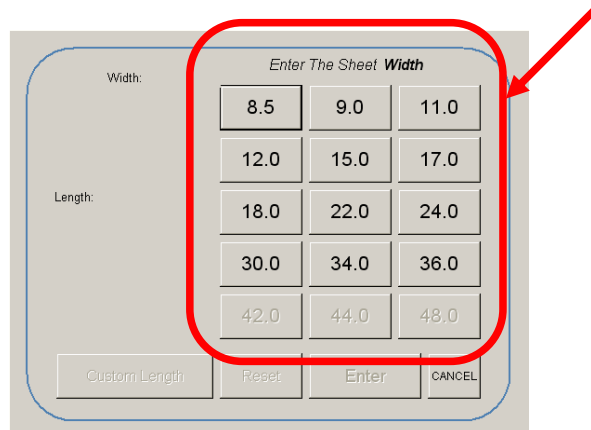
a) Select a desired size of the sheet.



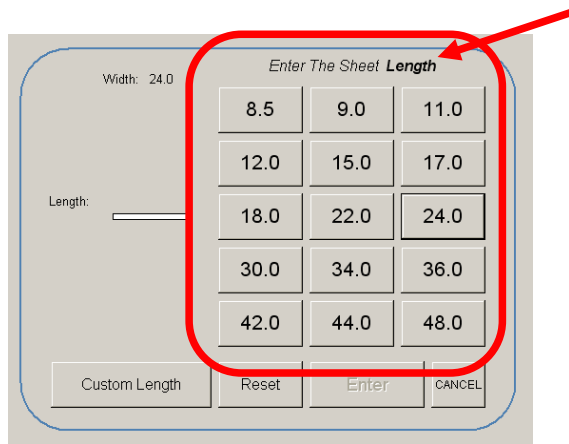
b) Or use "Custom" to select a width.



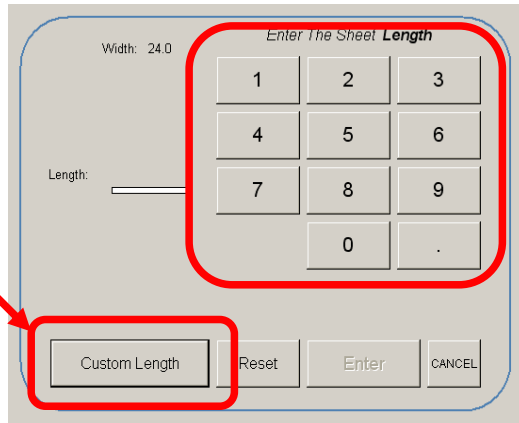
c) Set a standard size width.



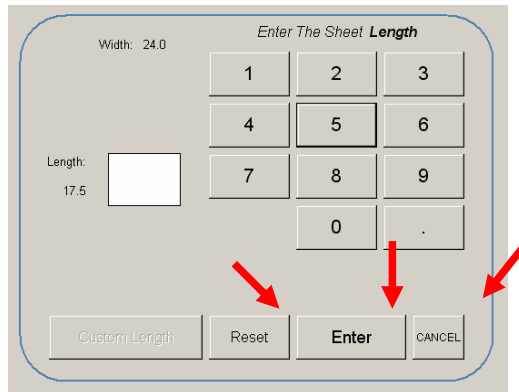
d) Select a standard size length or



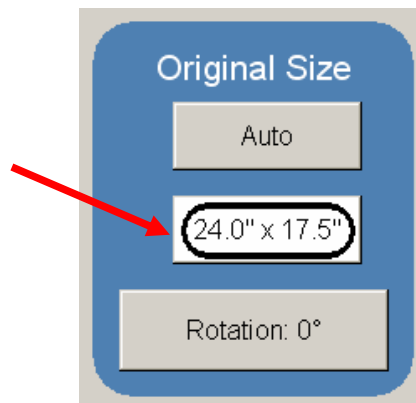
e) Select a custom length with the key pad.



f) Press "Reset" to begin again, "Enter" to accept the settings or Cancel" to cancel "Manual" image size.



g) The main Scan screen will now display the custom or manual size settings for the next image.



### 2.3.3 Hard Drive Space Monitor

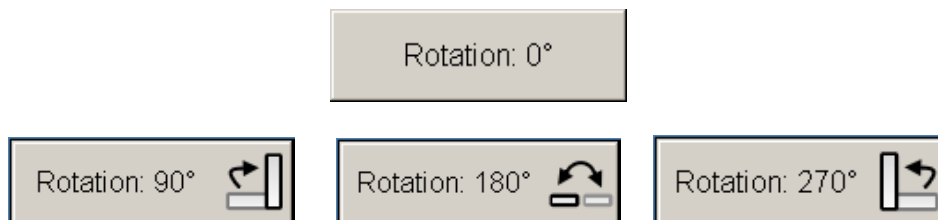
Located on the main screen of the KIP printer Scan mode, the Disk Use monitor provides a real-time display of remaining disk space on the KIP printer's hard drive. The monitor shows both the used space and the space available for image storage on the drive.



### 2.3.4 Rotation

The file can be saved rotated, from the actual feed direction. This can be used to reduce the scan time on certain orientation of originals, when they are archived.

Press the “Rotation” button to select either one of four settings:

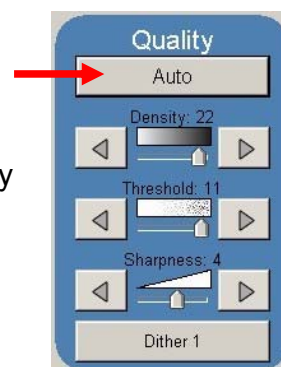


## 2.4 Quality

This region is used to change the image quality settings from the automatic setting.

### 2.4.1 Automatic

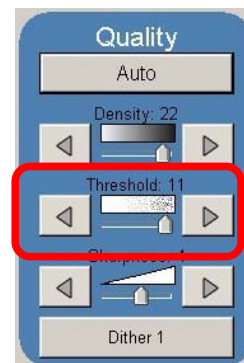
For most scans, “Auto” should be selected. This will allow the KIP 3000 to automatically determine the best image settings without any user intervention. (Please also note “Original” in 2.2)



### 2.4.2 Threshold

To override the “Automatic” settings, “Threshold” can be adjusted. Deselect “Auto” to enable “Threshold”.

Pressing the arrows manually adjusts the threshold. This will suppress or enhance the lines and images from the original.





### 2.4.3 Density

To override the “Automatic” settings, “Density” can be adjusted. Deselect “Auto” to enable “Density”.

Pressing the arrows manually adjusts the background density. This will suppress or enhance the background from the original.



### 2.4.4 Sharpness

To override the “Automatic” settings, “Sharpness” can be adjusted. Deselect “Auto” to enable “Sharpness”.

Pressing the arrows manually adjusts the line sharpness to remove rough lines or when photos are scanned to allow for smoother graduations.



### 2.4.5 Dither

To override the “Automatic” settings, “Dither” can be adjusted. Deselect “Auto” to enable “Dither”.

By pressing the dither button,

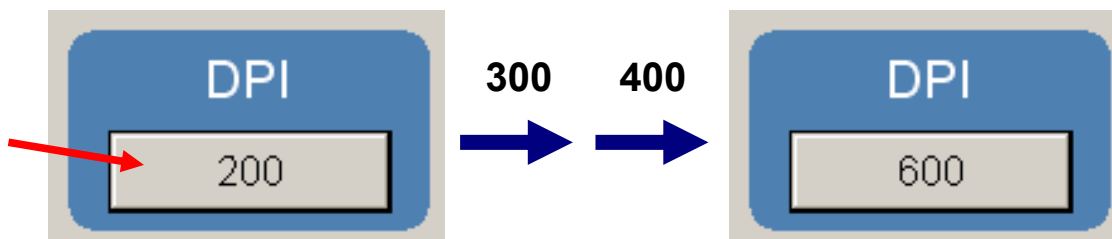
- a) None
- b) Fine
- c) Medium or
- d) Course

This will change how the dots are arranged to create the final image of the scan. For fine lines a “Course” dither pattern may be desired. For Photos “None” may be desired.



## 2.5 DPI

Scroll through the DPI button to select the required scan resolution. Choices are 200, 300, 400 or 600 DPI.

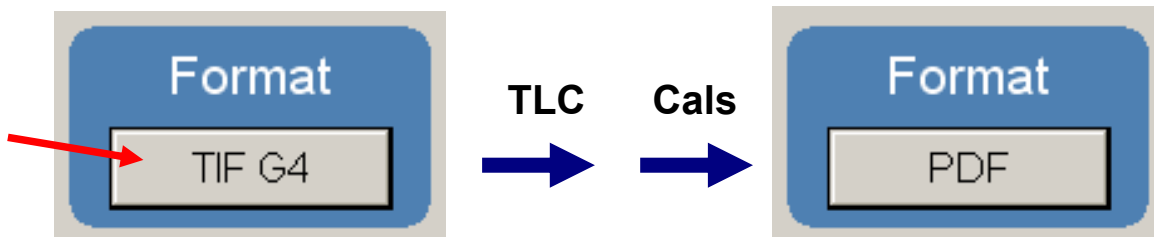


## 2.6 Format

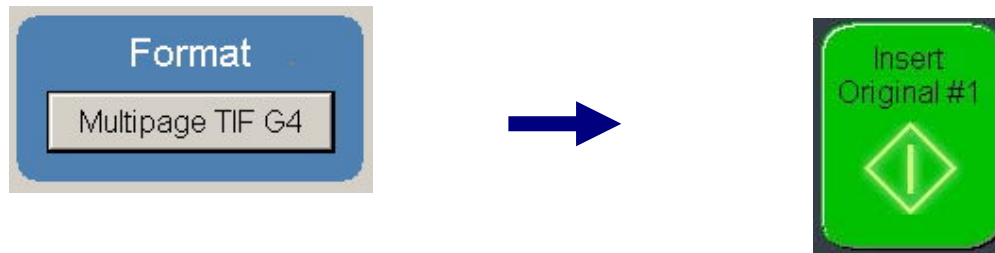
Press the “Format” button to toggle through the file formats available.

TIF-G4	- tif format Group 4 level compressed
TLC	- KIP format compressed
CAL-G4	- Cals Group 4 level
PDF	- PDF Level 3
DWF	- Design Web Format (AutoCAD)
Multipage TIF-G4	- Tif format Group 4 level compressed
Multipage PDF	- PDF Level 3
Multipage DWF	- Design Web Format (AutoCAD)

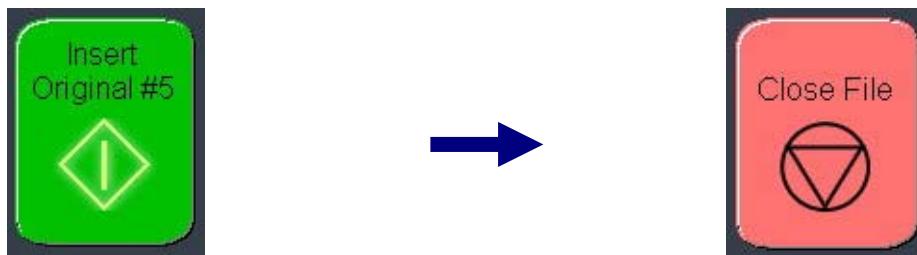
Select the file type required to save the image into this format.



For a Multipage scan, select the desired Multipage format. Start button will prompt for next original.



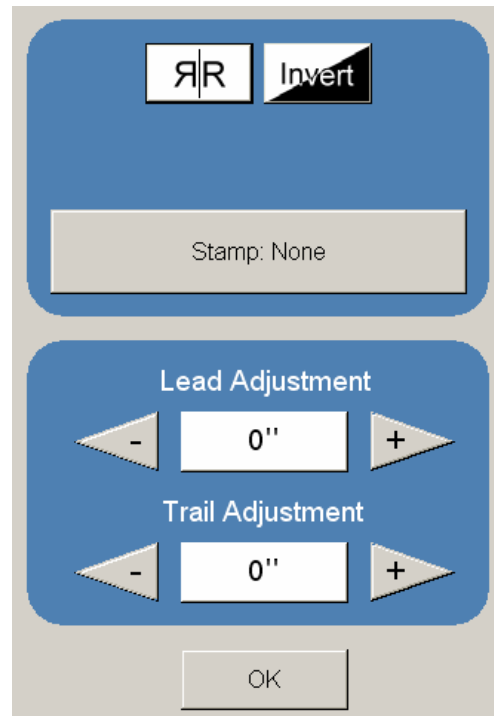
When finished scanning, select the Close File button to finalize the multipage file.



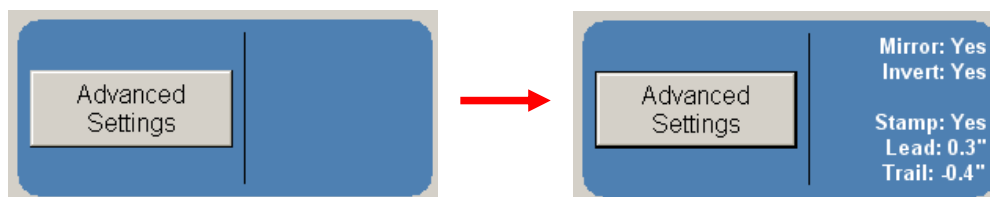
## 2.7 Advanced Settings

The Advanced Setting button contains the additional parameters on a sub screen:

- a) Invert
- b) Mirror
- c) Stamp (Water Mark)
- d) Lead Edge Adjustment
- e) Trail Edge Adjustment



Make any required adjustments / selections and press “OK” to accept. The selections will now be displayed on the main Scan screen.



### 2.7.1 Mirror

Select this button to “mirror” a scan. This can be utilized on originals that have the actual image on the reverse side such as older “sepia” or “film” documents.



### 2.7.2 Invert

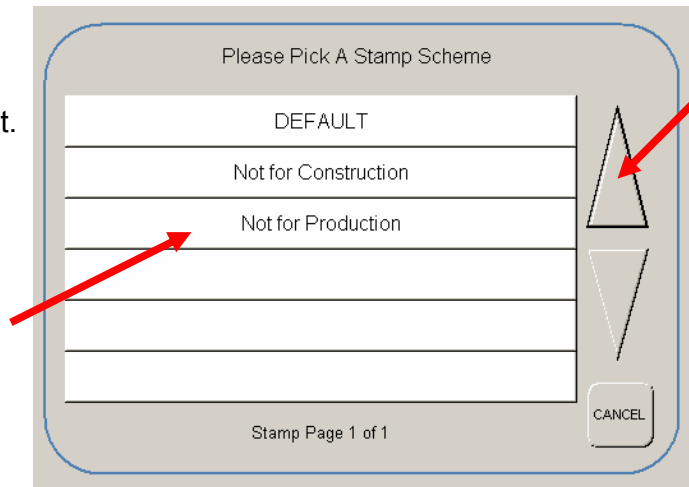
Select this button to change a region of white to black and visa versa of a scanned document. This is normally used for “negative” documents or “blue prints”.



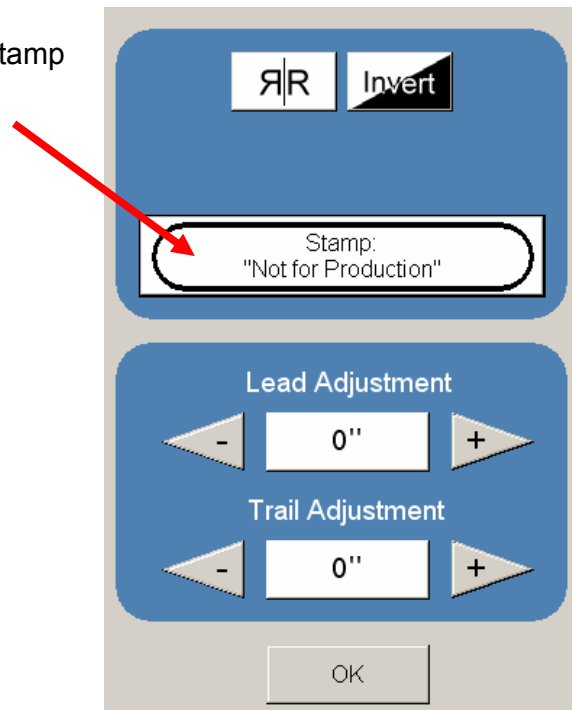
### 2.7.3 Stamp

Select “Stamp” to display another sub screen. This will allow the selection of a “Stamp” or “Water Mark” to be placed on the scanned image. It will be embedded digitally into the image.

- a) Use the Arrow buttons to scroll through the available stamps and then select the stamp from the list.



- b) The Stamp button will now display the stamp selected.



#### NOTE

The list of “Stamps” is loaded into Scan Mode by the system administrator or key operator. They can not be altered or modified in any manner on the KIP printer’s UI.

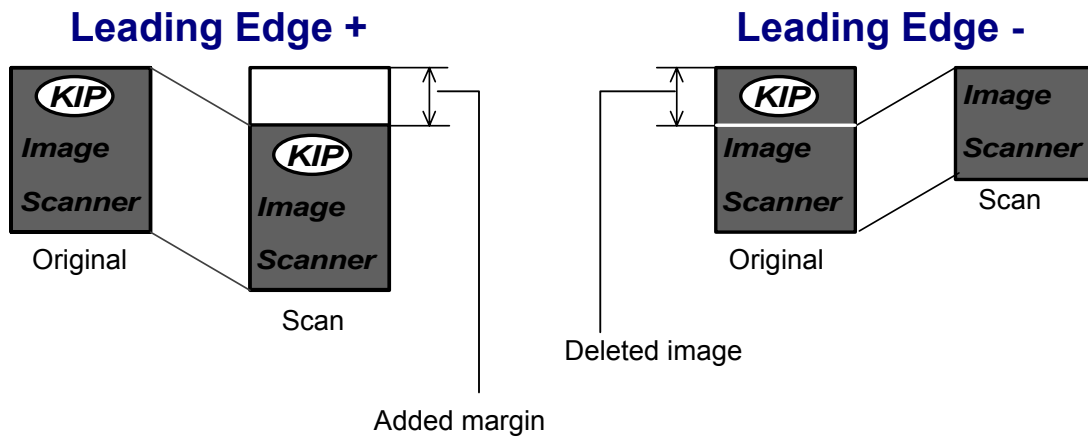
Please contact these persons for any additional stamps that may be required.

Please see “KIP Request” for these functions.

#### 2.7.4 Leading Edge Adjustment

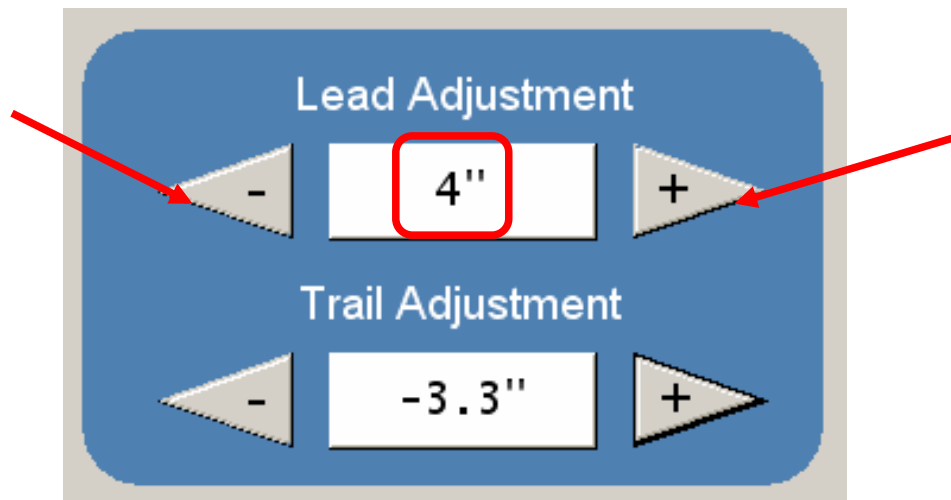
The leading edge of a scan can be altered. (  $\pm 4$ " )

- a) additional void area can be placed on the lead edge of a scan or
- b) image can be removed (such as a binding strip or a file hanger)



To adjust the Leading Edge, use the arrows to denote the quantity you wish to add or remove.

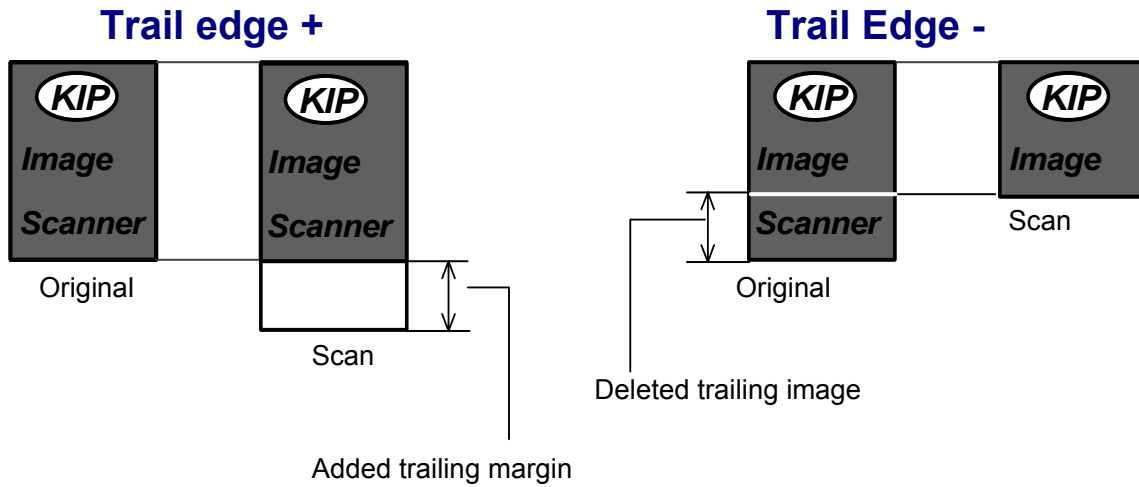
Touch the value displayed area to reset the quantity.



### 2.7.5 Trailing Edge Adjustment

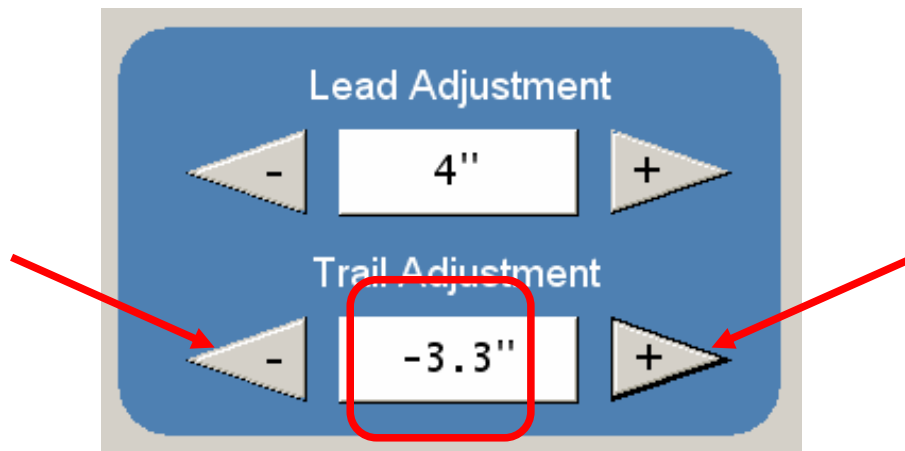
The trailing edge of a scan can be altered. (  $\pm 4$  ")

- c) additional void area can be placed on the bottom of a scan or
- d) image can be removed (such as a binding strip or a file hanger)



To adjust the Trailing Edge, use the arrows to denote the quantity you wish to add or remove.

Touch the value displayed area to reset the quantity.



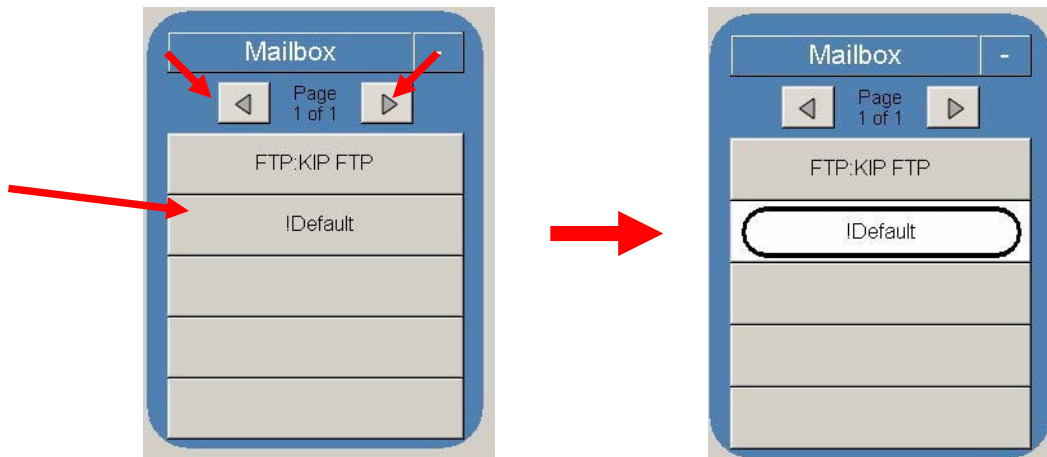
Make any of the required adjustments / selections and press "OK" to accept. The selections will now be displayed on the main Scan screen.

## 2.8 Mailbox

This region of the Scan screen allows the user to select where the files will be placed.

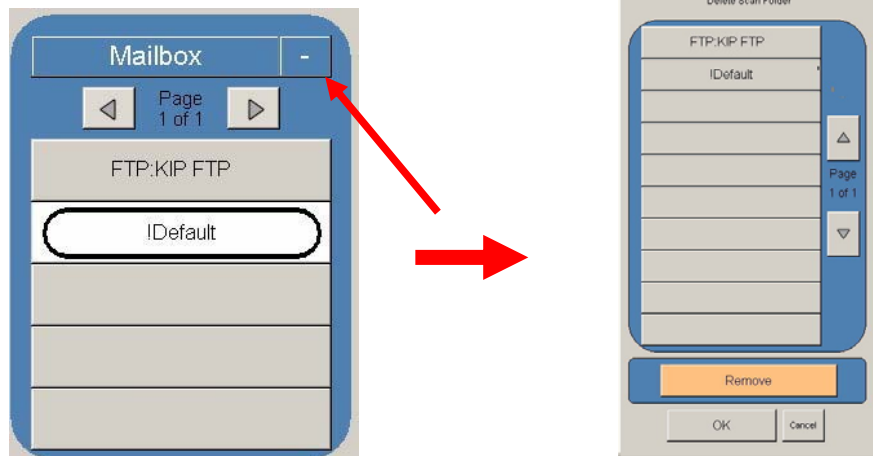
### 2.8.1 Selecting a Mailbox

- Use the arrow keys to scroll through the list as needed.
- Select the location by pressing on it.

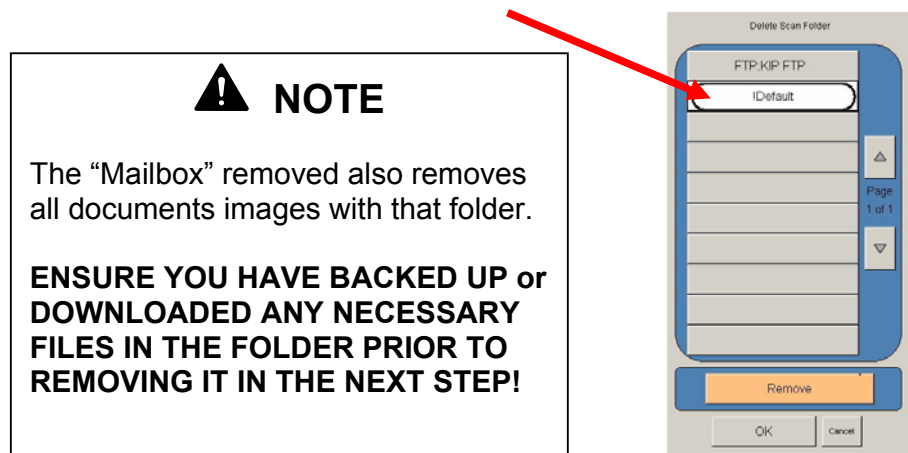


### 2.8.2 Removing a Mailbox

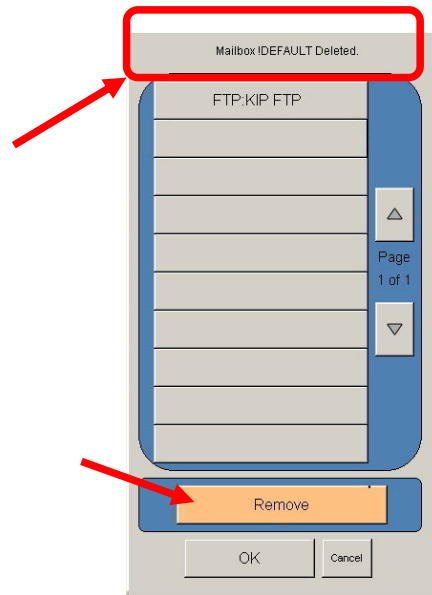
- Press the “-” button on the main Scan screen.



- Select which “Mailbox” you wish to remove.

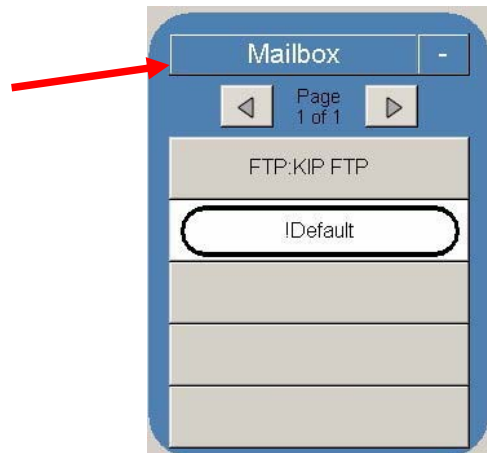


c) Press “Remove”.

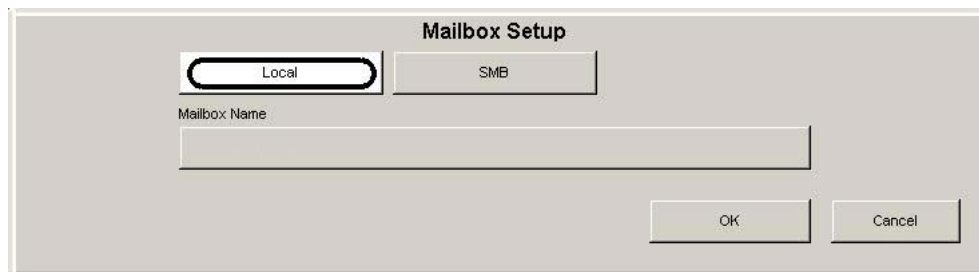


### 2.8.3 Creating a New Mailbox

a) Press the Mailbox Button.

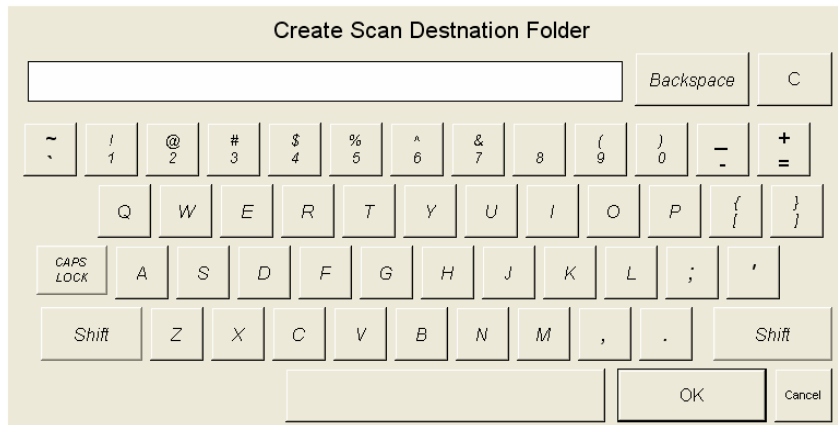


b) The Mailbox Setup screen is displayed.





- c) Select Mailbox Name. A screen keyboard will be displayed.  
Enter the new Mailbox name.



- d) Enter the new location using standard protocols of networking for scans to the:

### **IPS Mailbox**

Set a name for the location

Examples:

Dsmith  
B\_Project  
Team\_XYZ  
Michele

Access to these folders and the scanned images is preformed from the KIP Request application. Please see the User Guide of “KIP Request” for the retrieval function.

### **FTP Locations**

Please contact your network administrator for details on how to configure and load FTP locations into the KIP printer Scan Mode. (Administrator / Service Functions of the KIP printer) Please see your network administrator for access to your FTP and the retrieval of the documents from the FTP.

## **2.8.4 SMB Setup**

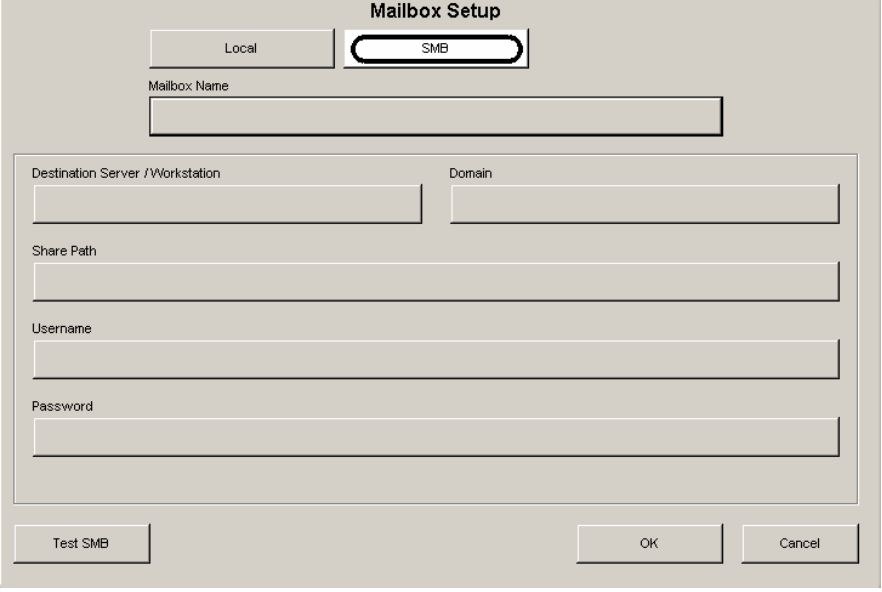
### **2.8.4.1 Share Setup – Workstation/Server**

When setting up a share at a workstation or server, it is necessary to have some information ahead of time.

- User must have rights to share a folder
- User must know where the access rights are held
  - Rights are local to the PC or Domain (Active Directory)
- File and Print Sharing must be enabled within the Windows XP firewall settings
- User must be able to read, write and modify the destination SMB folder
- User must know login username and password

## 2.8.4.2 Network Location (SMB/CIFS) – IPS Setup

Server Message Block/Common Internet File System (SMB/CIFS) allows the user to create a semi-permanent connection to a network resource for scan to file.

The image shows a 'Mailbox Setup' dialog box. At the top, there are two buttons: 'Local' and 'SMB', with 'SMB' being the active selection. Below this is a 'Mailbox Name' text field. The main section of the dialog contains four text fields: 'Destination Server / Workstation', 'Domain', 'Share Path', 'Username', and 'Password'. At the bottom, there are three buttons: 'Test SMB', 'OK', and 'Cancel'.

Function Button	Description
Mailbox Name	Descriptor to be displayed on SCAN screen (Preceded by SMB:) This will turn green when connected
Destination Server/Workstation	IP address or NetBIOS name of destination workstation/server
Domain	Name of authorization provider (Domain server or workgroup workstation)
Share Path	Shared resource on destination workstation/server
Username	Login credentials on destination workstation/server
Password	Password for supplied username on destination workstation/server
Test SMB	Maps a network drive to the destination workstation/server

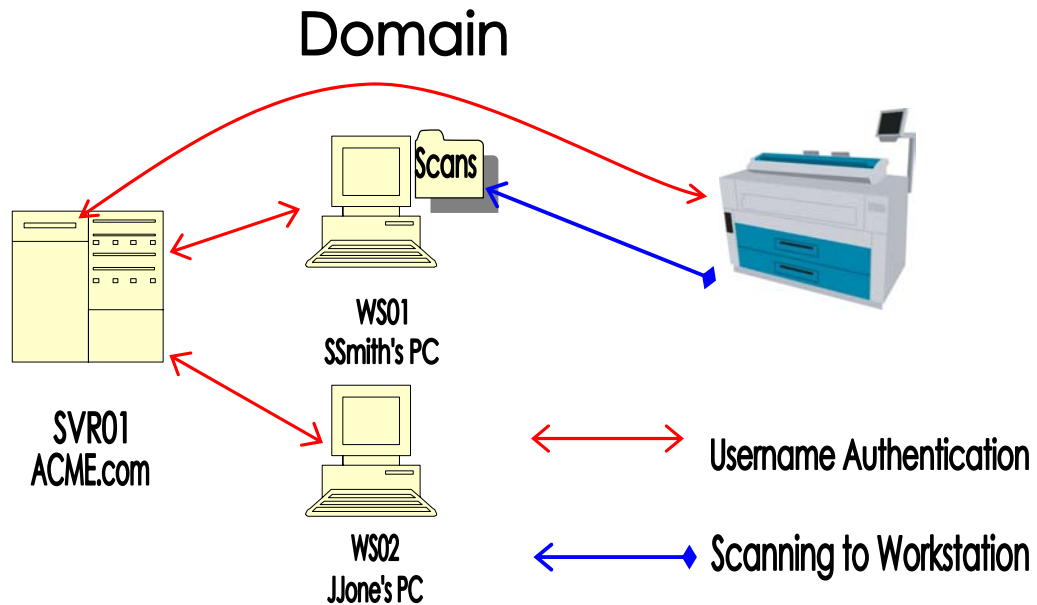
Within the SCAN screen, press the **Mailbox** button to create an SMB connection.

- Touch the **SMB** button to display the SMB Mailbox creation dialog.
- Press the **Mailbox Name** button to enter a descriptive name for the SMB scan to file location. This description will be displayed on the SCAN screen with the label of SMB: [Mailbox Name].
- Touch **Destination Server/Workstation** button to enter the NetBIOS name or IP address of the destination server or workstation that the KIP IPS will connect to in order to allow for scan to file.
  - This must be a server or workstation that the KIP IPS has access to via TCP/IP.
  - Please ensure that the KIP printer has been networked properly and is “pingable” from the destination server/workstation.

- d) Touch **Domain** button to enter the client authorization information. This entry will work in conjunction with the Username/Password entries as defined in later steps.
- c. Some facilities will have user credentials (SAM) stored on a central authorization server (Domain Controller/Active Directory Server) that will grant connection access to the KIP IPS for shared resources. If the KIP IPS is connecting to a workstation (WS01) that is a part of the Acme.com domain, then the user would enter Acme in the Domain section. The KIP IPS would get authorization credentials from the SVR01 server in order to scan to the "Scans" folder on the WS01 workstation (SSmith's PC).

The image shows a 'Mailbox Setup' dialog box with the following fields and options:

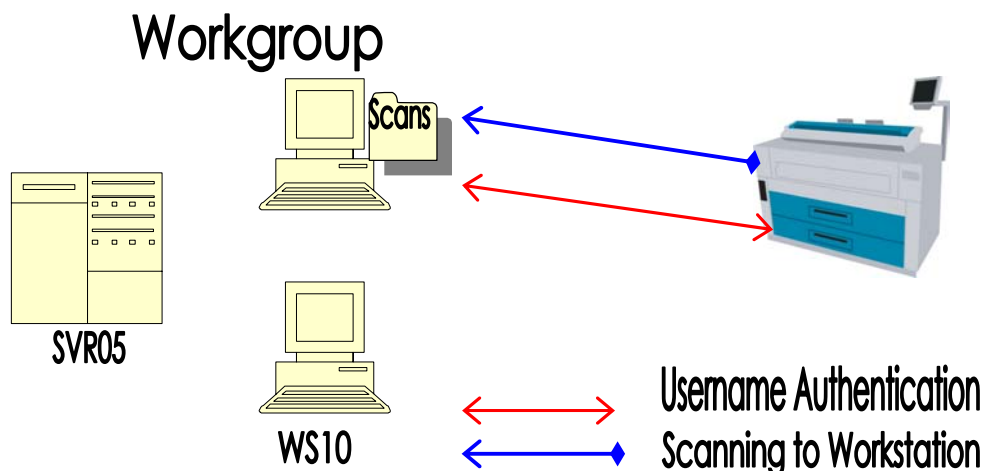
- Local** (radio button) and **SMB** (radio button, selected)
- Mailbox Name**: Images
- Destination Server / Workstation**: WS01
- Domain**: Acme
- Share Path**: scans
- Username**: Acme\SSmith
- Password**: \*\*\*\*
- Test SMB** button
- OK** and **Cancel** buttons



- d. If the KIP IPS is in a workgroup setting (No Domain Controller/Active Directory Server), the authorization credentials (SAM) will be supplied by the destination workstation/server (WS06). If the user is connecting to a shared resource on a workstation (Scans folder) with the NetBIOS (computer) name of WS06, the user would input WS06 for the Domain section. The KIP IPS would get the authorization credentials from the WS06 workstation.

The 'Mailbox Setup' dialog box has the following fields and options:

- Local** (radio button) and **SMB** (radio button, selected)
- Mailbox Name**: Images
- Destination Server / Workstation**: WS06
- Domain**: WS06
- Share Path**: scans
- Username**: WS06\SSmith
- Password**: masked with asterisks
- Test SMB** button
- OK** and **Cancel** buttons



- e) Touch the **Share Path** button to enter the name of the shared folder on the destination workstation or server.
- The shared folder on the destination workstation must be accessible by the user as supplied in the **Username** setting.
  - These permissions should include the ability to write and modify on this shared folder.
- f) **Username** and **Password** should be set as an accessible login username from either the workgroup workstation/server or the authentication server/domain controller.
- g) Touching on **Test SMB** will make the KIP IPS attempt to establish a connection to the destination workstation/server.
- The connection is established when the SMB mailbox is selected and is disconnected when:
    - Switching Formats
    - Pressing the **STOP** button
    - Switching menus (SCAN, COPY, JOB INFO, "?")
    - Selecting another mailbox
    - Creating another SMB mailbox
    - Reset timer expiration
    - Log off

It is possible to scan all file formats to an SMB location. Please note that color image data is much larger and may take considerable network resources in order to transfer from the IPS to the SMB location. (A full color, 600 DPI, tiff packbit can be several gigabytes in size).

When scanning multi page documents (PDF, DWF and TIFF), the images are scanned to a temporary location on the IPS and then transferred to the SMB location once the **Close File** button has been pressed.

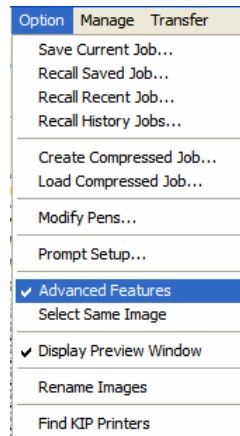
### **SMB Locations**

Please contact your network administrator for details on how to configure SMB locations on the remote server or workstation.

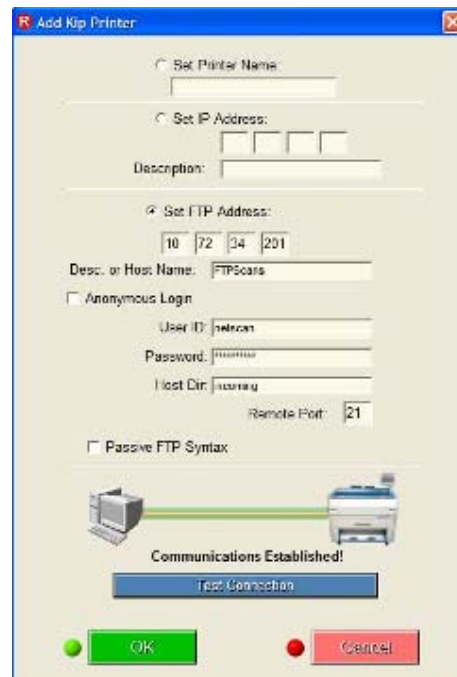
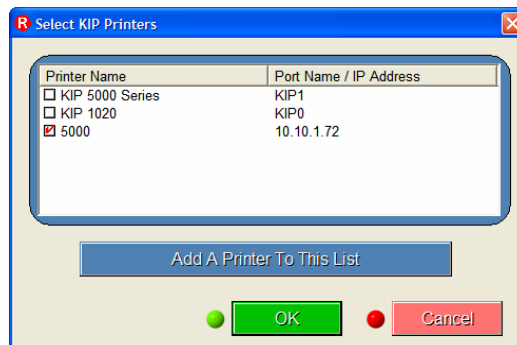
#### **2.8.4.3 FTP Site**

To load and access FTP locations on the KIP device please follow these steps:

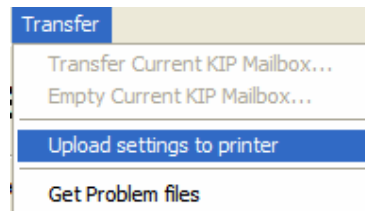
- a) In Request, enable **Advance Features** by selecting the **Options** menu and selection **Advanced Features**



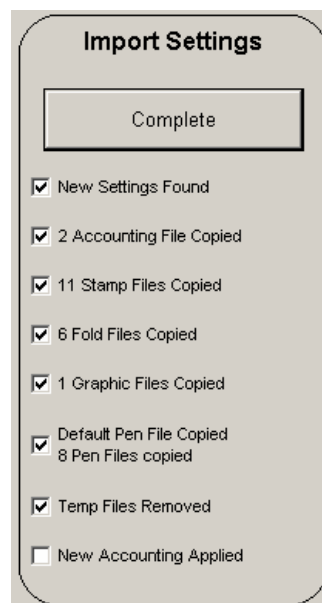
- b) Click **Options** and then select **Find KIP Printers** and the **Add a Printer to this List**. Select **Set FTP Address** and enter the necessary FTP information



- c) Send to the KIP IPS by using **Transfer** and then **Upload Settings to Printer**



- d) At the KIP IPS, enter (?) and then **Service**. Once you are in the Service menu, (password required) use the arrow keys at the bottom until "Import Settings" is shown (this will appear grayed out at first) touch the button labeled **Touch**. This will import any new FTP settings and will be displayed on the SCAN screen. These will be in the form FTP: [FTP Description].



## 2.9 Start

No function at this time in Scan Mode.  
All scans in Scan Mode are “Auto Start”.

## 2.10 Reset / Stop

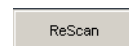
This button has two functions.

- 1) Press the Stop button on the UI to stop the current scan. The original will be ejected automatically. If not, open Top Cover to remove the original.
- 2) Press the Reset button to restore the “default settings” in Scan Mode. Some of the default settings are determined in the Information / Help Screen of the UI. (see Scan Mode Configurations chapter)



## 2.11 Re-Scan

If the scanned image was not satisfactory, you can replace the last image scan by selecting this button and proceeding with the scan procedure as normal.



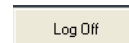
## 2.12 View Last

Allows the last scan to be reviewed again on the UI.



## 2.13 Log Off

This button may be displayed if accounting is enabled. Press this button to log off the current user after scanning has been completed.



## Section 5

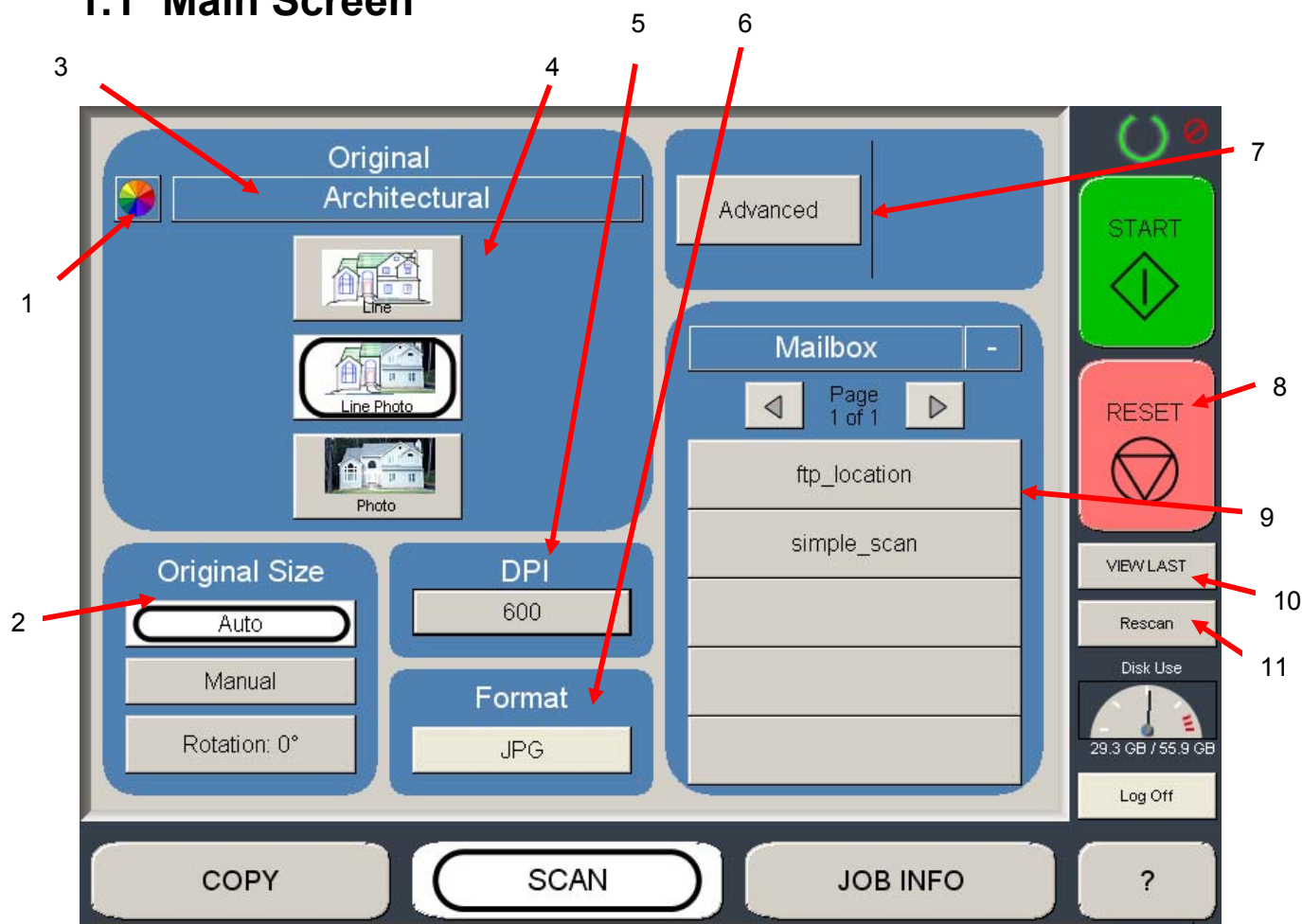
# Scan Mode - Color

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# 1.0 Scan Mode – Color

## 1.1 Main Screen



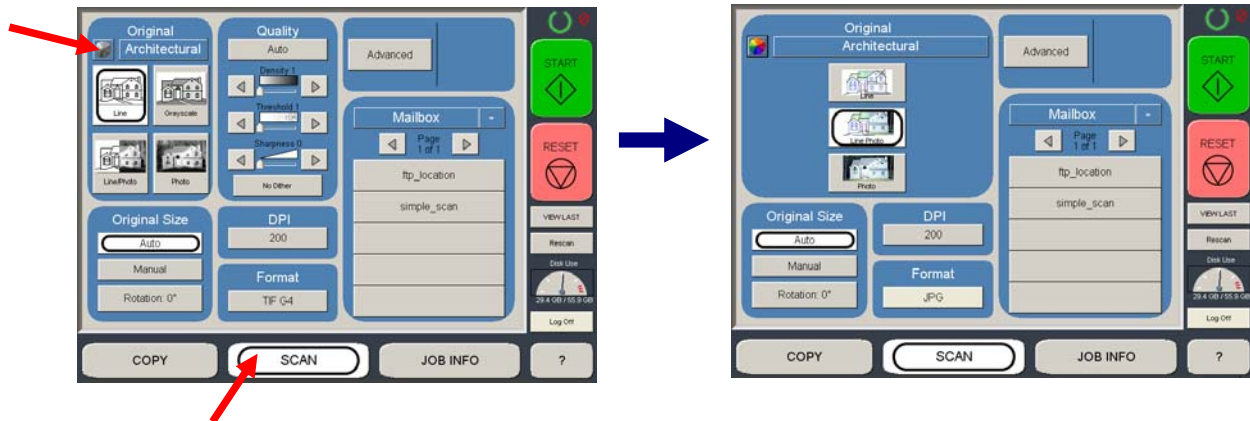
No.	Name	Function
1	Mode	Selects “Color Mode” while in Scan mode
2	Original Size	Use automatic settings or manually set width, length and rotation of the image.
3	Original Type	User Selects the type of original to scan. Also select either Eng/Arch Mode here.
4	Quality	Select the original image type to be scanned - Input
5	DPI	Scroll through the image resolution. (DPI)
6	Format	Scroll through formats the file will be saved to - output
7	Advanced Settings	Invert, mirror, and edge adjustments preformed / displayed with this button (sub screen)
8	Reset / Stop	Resets the system to default settings. Stops a scan in process
9	Mailbox	Select where the image will be stored after the scan (KIP Mailbox, FTP, SMB)
10	View Last	View the last scanned image
11	Rescan	Rescans the last image (replaces)

## 1.2 Simple Scanning

To scan to file in color, please follow these basic steps. The following chapters have details on adjustments and parameters that the user can change to modify color scans.

### 1.2.1 Select Scan Mode

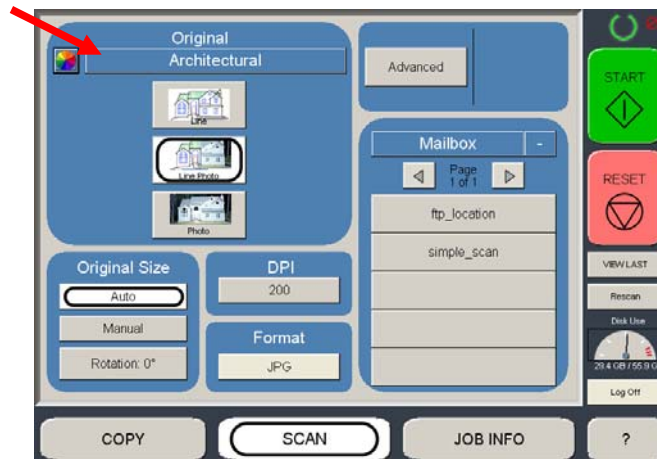
On the lower region of the UI, select “SCAN” then select Color Mode in the upper left corner.



### 1.2.2 Select Size Mode

Select whether the document is an engineering or architectural size document. This will allow the automatic width detection to function.

Engineering widths = 34, 22, 17, 11, and 8.5 inches  
Architecture widths = 36, 30, 24, 18, 12, and 9 inches

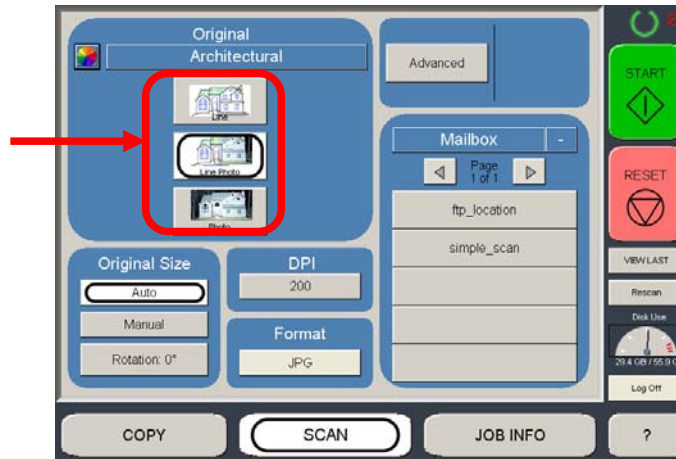


### 1.2.3 Select Original Image Type

Set the original Image type you will scan. The selections are:

- Line - used for simple color line documents
- Line / Photo - used for a combination of color lines & photos
- Photo - used for color photographic originals

This will allow automatic image quality adjustments for the color scan.

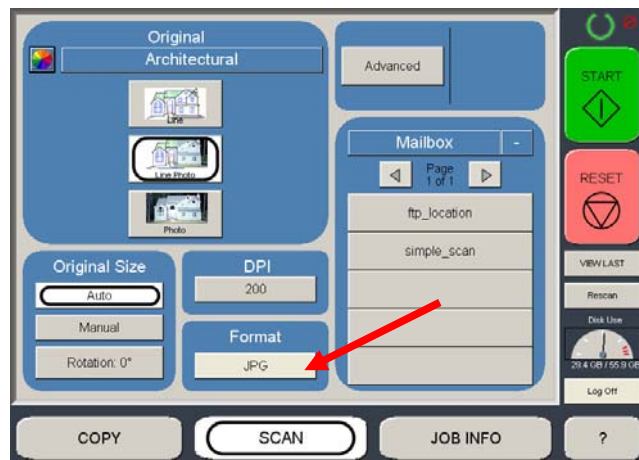


#### 1.2.4 Select Format

Press the button to scroll through the file formats available.

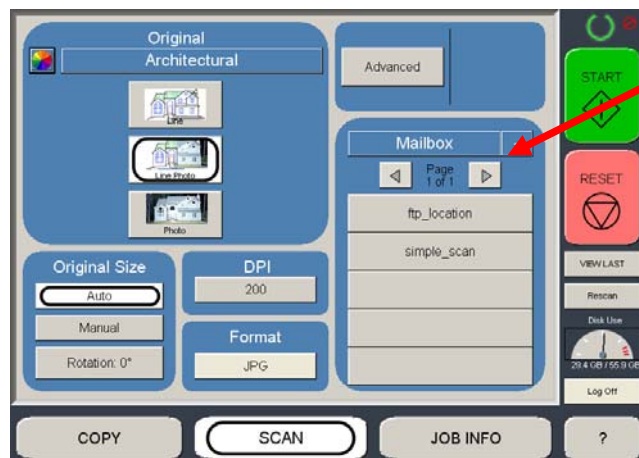
TIF Packbit  
JPEG  
PDF Color

Select a desired file format.



#### 1.2.5 Select Mailbox

Select the location to where the file will be saved. Use the "Page Arrows" to view other choices currently available.



#### NOTE

The Mailboxes are predetermined by the system administrator or key operator. Please contact these persons for any additional locations that you may require. The "Mailbox" button will allow for additional location entries.

### **1.2.6 Insert Original**

Using the guides on the feed table, center the original face up and push forward until the KIP 3000 accepts it.

The KIP 3000 will automatically commence to scan. While this occurs the image will be displayed on the Operator Panel for your reference.

### **1.2.7 Retrieve the File**

Depending on the “Mailbox” you may now access your scan from a PC connected to the LAN. This includes:

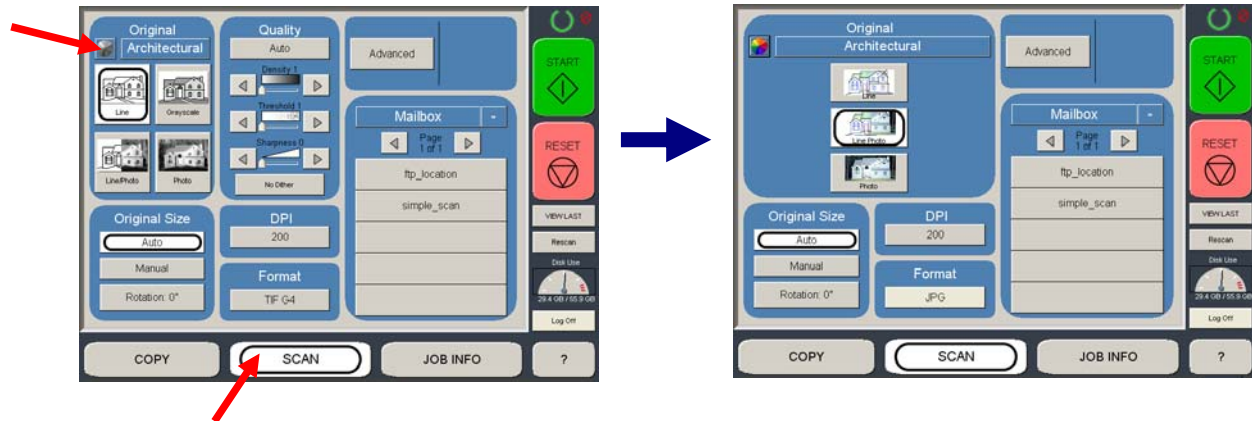
- a) from a FTP site (using Microsoft Windows Internet Explorer or other FTP software)
- b) from the “KIP IPS Mailbox” utilizing “KIP Request” to access the document.
- c) from SMB Location on remote server or workstation

Please see the User Guides of these applications for details on their function.

## 2.0 Operation Details

### 2.1 Main Screen

On the lower region of the UI, select “SCAN” then select Color Mode in the upper left corner.



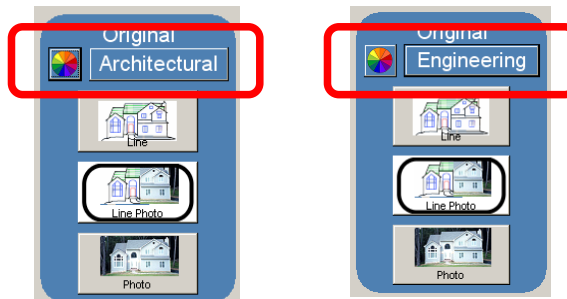
This screen contains all user functions for scanning to file in color. The following pages details the functions and settings of each button and sub screens that can be used to adjust the scan parameters to achieve the required result.

### 2.2 Original

This region allows the setting of the Size Mode (Engineering or Architectural) and the Original Document type.

#### 2.2.1 Original Size Mode

This button is used to select the Size Mode of Engineering or Architectural.



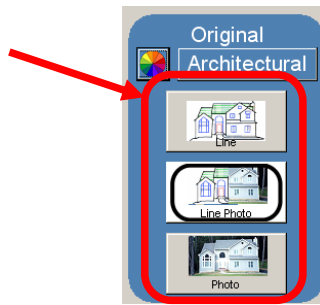
This will allow the automatic width detection system to determine the image width when an original is placed in the KIP 3000.

**Engineering widths = 34, 22, 17, 11, and 8.5 inches**  
**Architectural widths = 36, 30, 24, 18, 12, and 9 inches**

#### 2.2.2 Original Type

Select one of the three different predetermined original types. The selections are:

- |                 |  |
|-----------------|--|
| a) Line         | - used for simple color line documents           |
| b) Line / Photo | - used for a combination of color lines & photos |
| c) Photo        | - used for color photographic originals          |



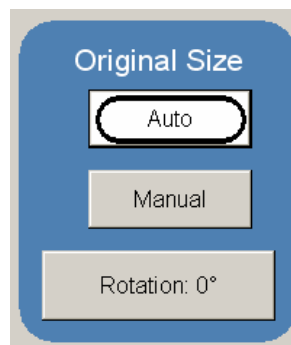
Press the desired original setting from one of the three diagrams. This will allow automatic image quality adjustments for the next scan. Please note that the selection will be highlighted with a “black circle” and the icon will become white, as in the above example “Line/Photo”.

## 2.3 Original Size

This region is used to select the image size of original being scanned.

### 2.3.1 Automatic Size

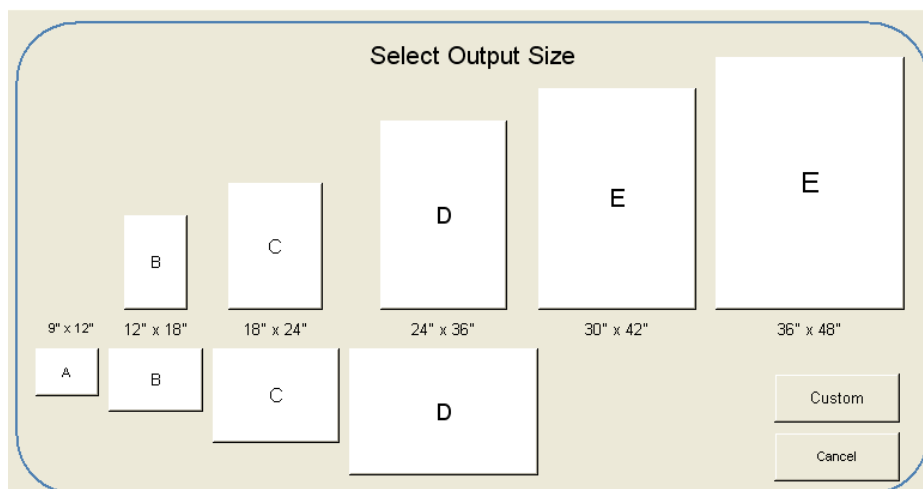
For most scans, “Automatic” should be selected. This will allow the KIP 3000 to automatically determine the width and length of the scan without any user intervention. (Please also note “Original Size Mode” in 2.2.)



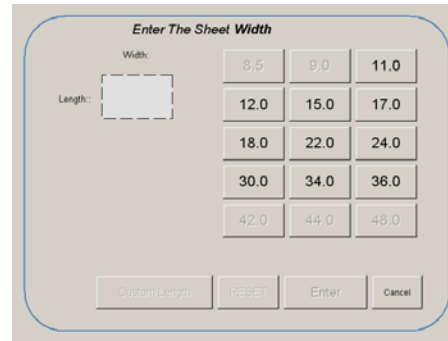
### 2.3.2 Manual Size

To select an original size manually, select Manual and a sub screen displays all current standard page sizes.

- a) Select a size or press “custom”.

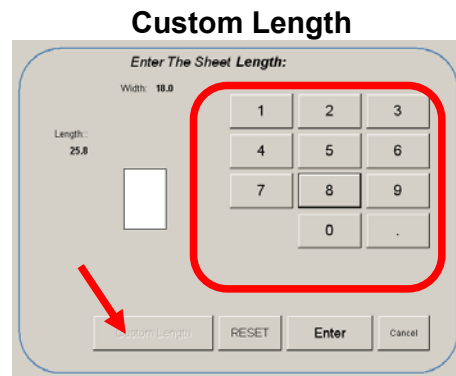
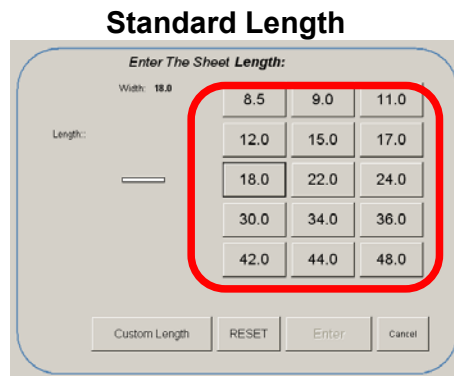


b) Or use Custom to select a width.

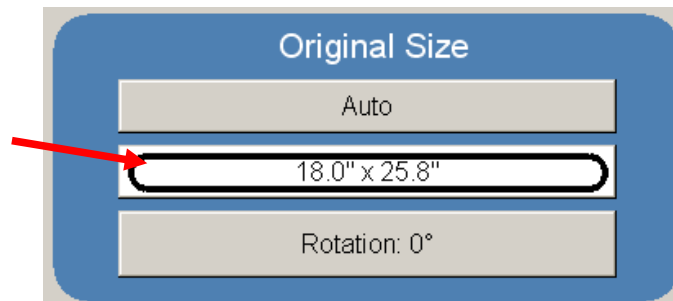


c) Set the width of the scan. Note that these are only Standard Sizes.

d) Set a Standard Length or Custom Length – set the Custom length in the key pad and press enter.



e) The cut length will now be displayed in the Manual button. In this example 18" width and a custom length of 25.8".



### 2.3.3 Hard Drive Space Monitor

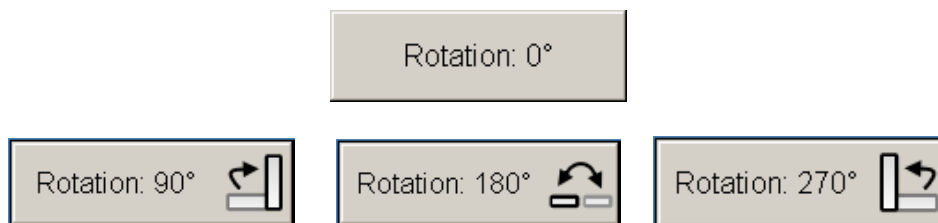
Located on the main screen of the KIP printer Scan mode, the Disk Use monitor provides a real-time display of remaining disk space on the KIP printer's hard drive. The monitor shows both the used space and the space available for image storage on the drive.



### 2.3.4 Rotation

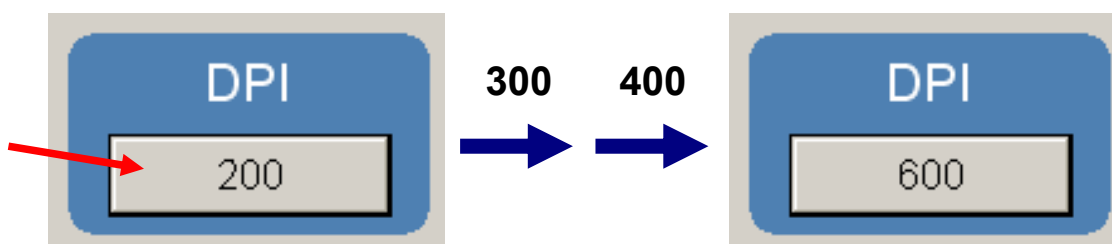
The file can be saved rotated from the actual feed direction. This can be used to reduce the scan time on certain orientation of originals, when they are archived.

Press the “Rotation” button to select either one of four settings:



## 2.4 DPI

Scroll through the DPI button to select the required scan resolution. Choices are 200, 300, 400 or 600 DPI.

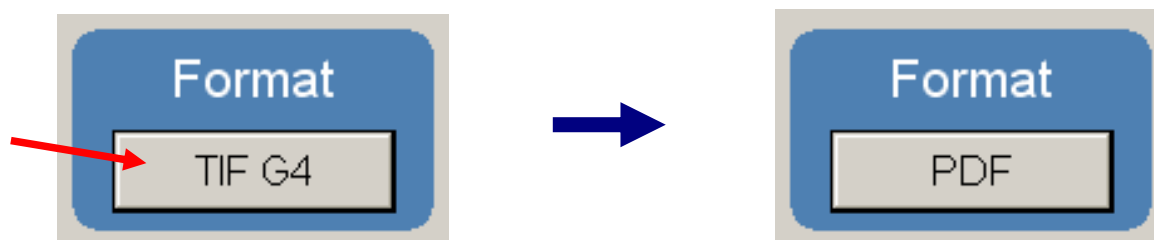


## 2.5 Format

Press the “Format” button to scroll through the file formats available.

TIF Packbit  
JPEG  
PDF Color

Select the file type required to save the image into this format.



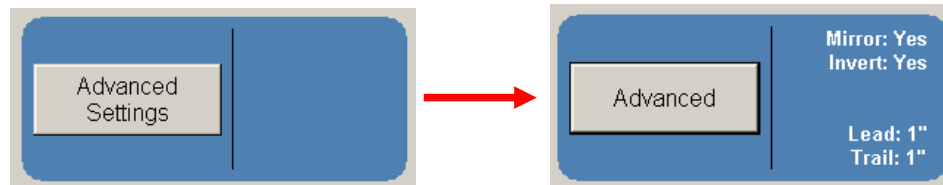


## 2.6 Advanced Settings

The Advanced Setting button contains the additional parameters on a sub screen:

- a) Mirror
- b) Invert
- c) Lead Edge Adjustment
- d) Trail Edge Adjustment

When any of the adjustments / selections is selected, the selections will now be displayed on the main Scan screen.



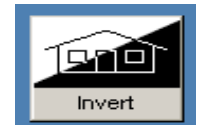
### 2.6.1 Mirror

Select this button to “mirror” a scan. This can be utilized on originals that have the actual image on the reverse side such as older “sepia” or “film” documents.



### 2.6.2 Invert

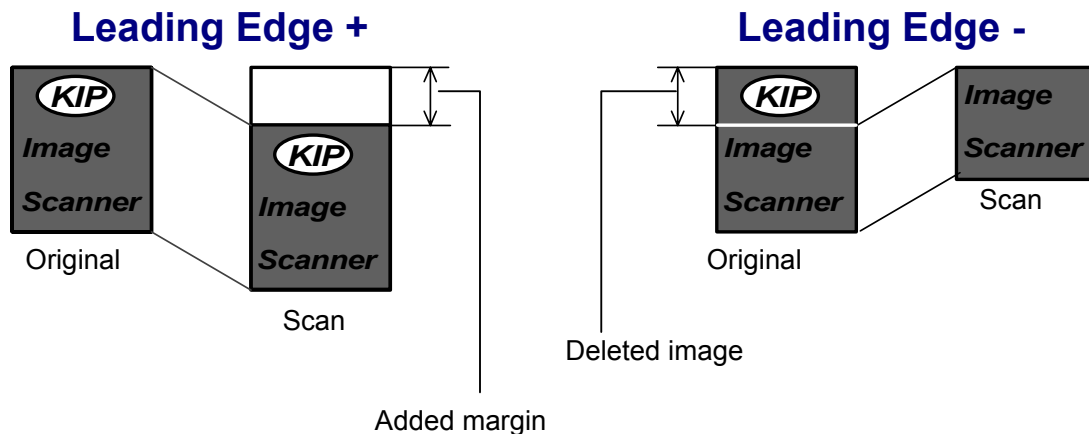
Select this button to change a region of white to black and visa versa of a scanned document. This is normally used for “negative” documents or “blue prints”.



### 2.6.3 Leading Edge Adjustment

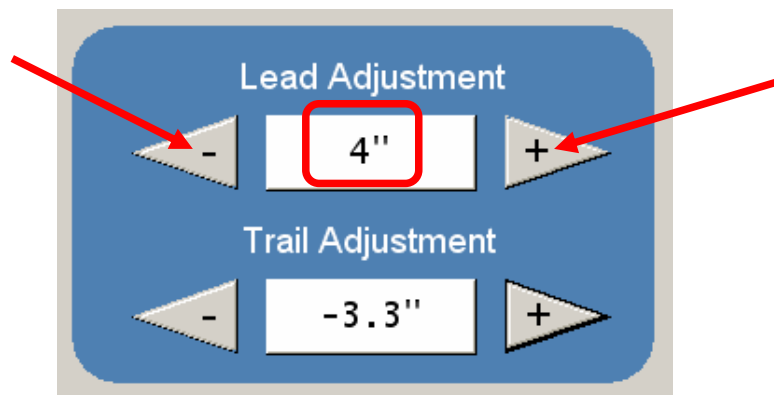
The leading edge of a scan can be altered. ( +/- 4" )

- a) additional void area can be placed on the lead edge of a scan or
- b) image can be removed (such as a binding strip or a file hanger)



To adjust the Leading Edge, use the arrows to denote the quantity you wish to add or remove.

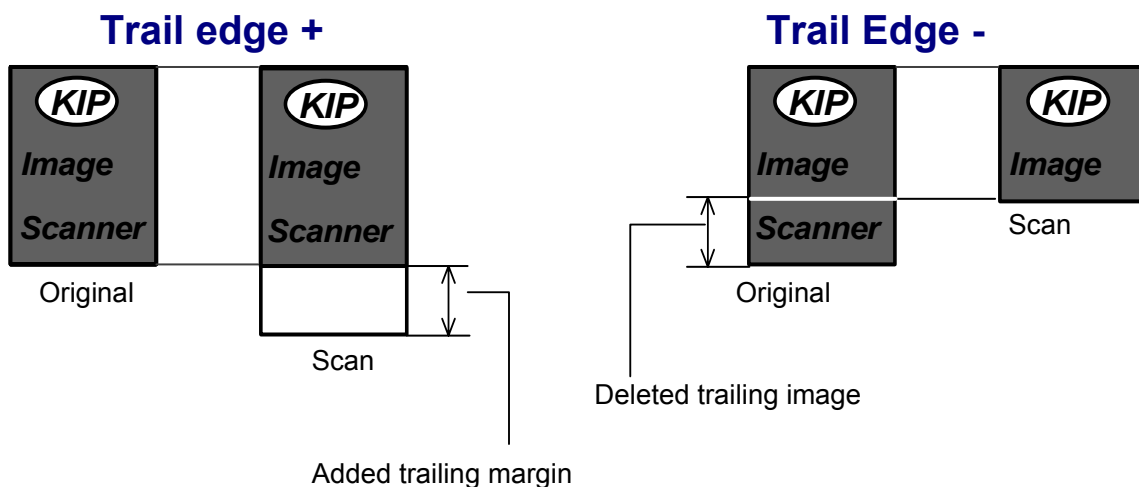
Touch the value displayed area to reset the quantity.



#### 2.6.4 Trailing Edge Adjustment

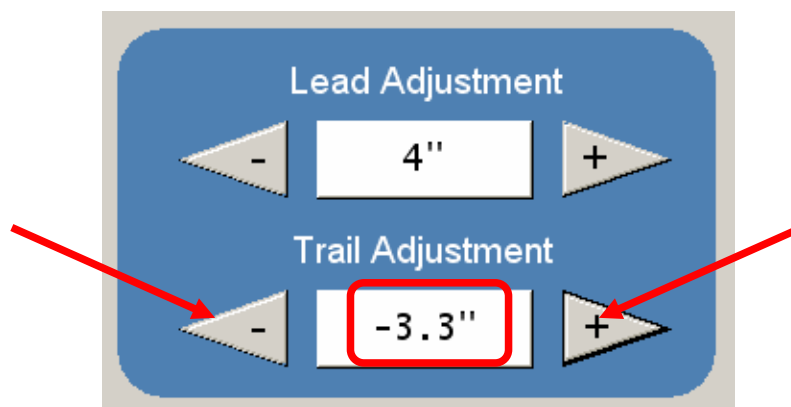
The trailing edge of each scan can be altered. (  $\pm 4"$  )

- c) additional void area can be placed on the bottom of a scan
- d) image can be removed (such as a binding strip or a file hanger)



To adjust the Trailing Edge, use the arrows to denote the quantity you wish to add or remove.

Touch the value displayed area to reset the quantity.



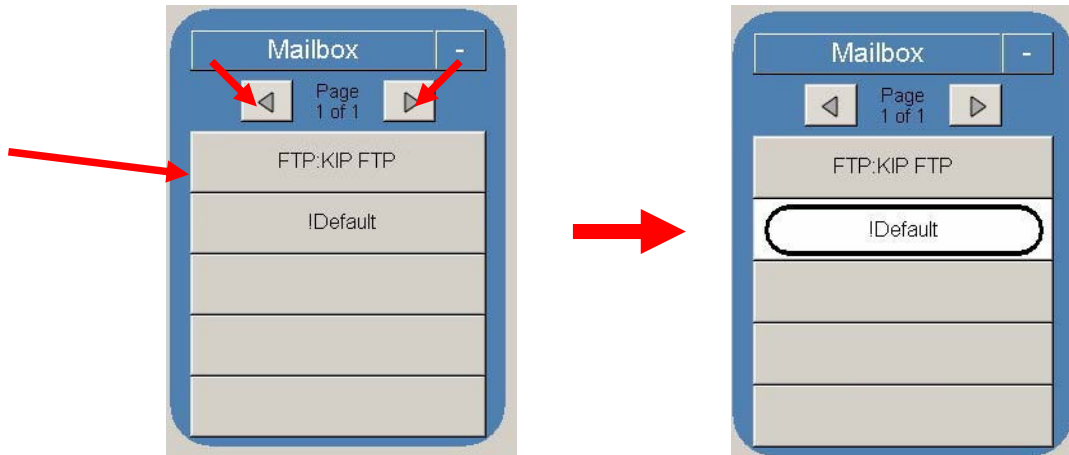
Make any of the required adjustments / selections and press "OK" to accept. The selections will now be displayed on the main Scan screen.

## 2.7 Mailbox

This region of the Scan screen allows the user to select where the color files will be placed.

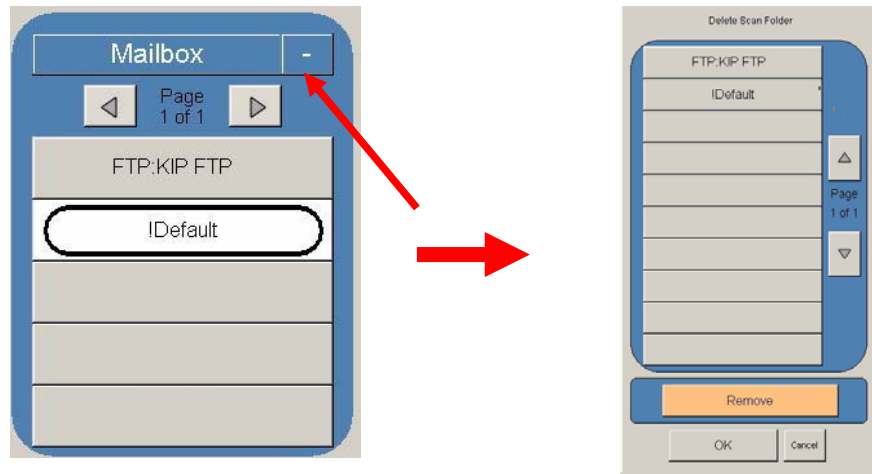
### 2.7.1 Selecting a Mailbox

- Use the arrow keys to scroll through the list as needed.
- Select the location by pressing on it.




### 2.7.2 Removing a Mailbox

- Press the “-” button on the main Scan screen.

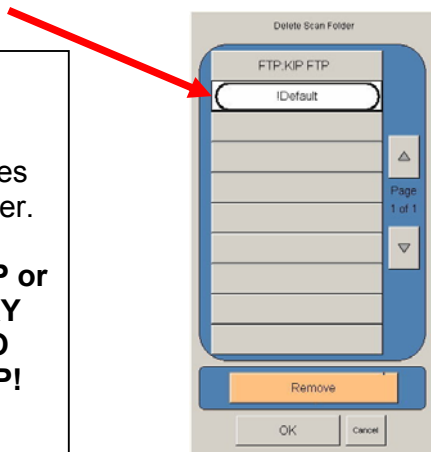


- Select which “Mailbox” you wish to remove.

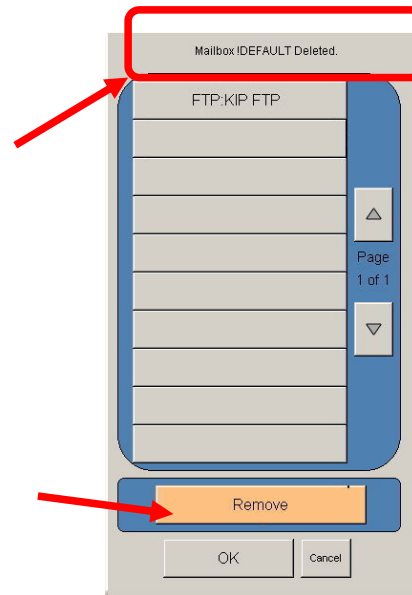
**NOTE**

The “Mailbox” removed also removes all documents images with that folder.

**ENSURE YOU HAVE BACKED UP or DOWNLOADED ANY NECESSARY FILES IN THE FOLDER PRIOR TO REMOVING IT IN THE NEXT STEP!**

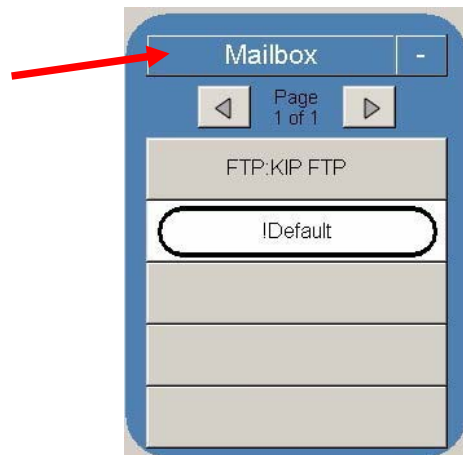


c) Press “Remove”.

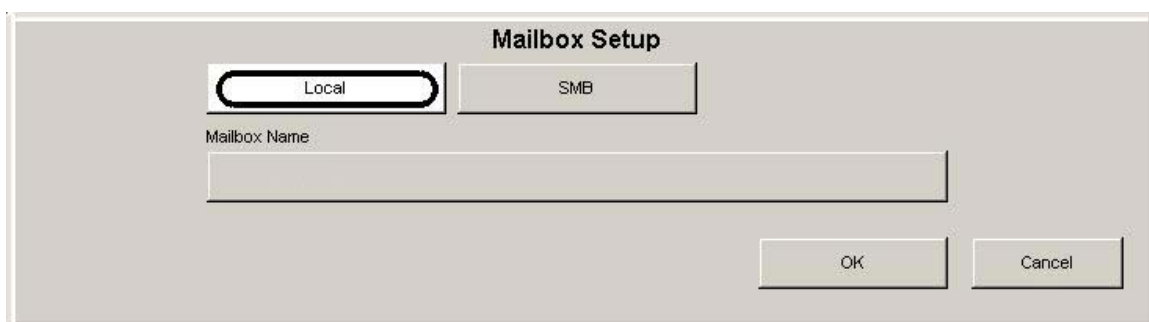


### 2.7.3 Creating a New Mailbox

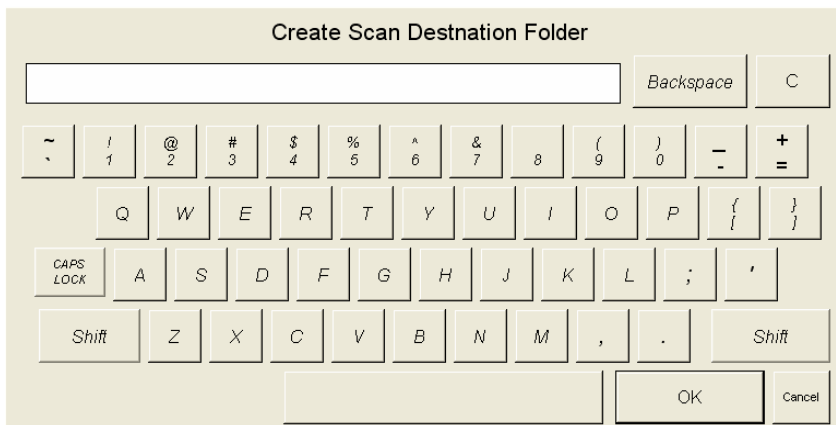
a) Press the Mailbox Button.



b) The Mailbox Setup screen is displayed.



- c) Select Mailbox Name. A screen keyboard will be displayed.  
Enter the new Mailbox name.



- d) Enter the new location using standard protocols of networking for scans to the:

### **IPS Mailbox**

Set a name for the location

Examples:

Dsmith  
B\_Project  
Team\_XYZ  
Michele

Access to these folders and the scanned images is preformed from the KIP Request application. Please see the User Guide of “KIP Request” for the retrieval function.

### **FTP Locations**

Please contact your network administrator for details on how to configure and load FTP locations into the KIP printer Scan Mode. ( Administrator / Service Functions of the KIP printer ) Please see your network administrator for access to your FTP and the retrieval of the documents from the FTP.

## **2.7.4 SMB Setup**

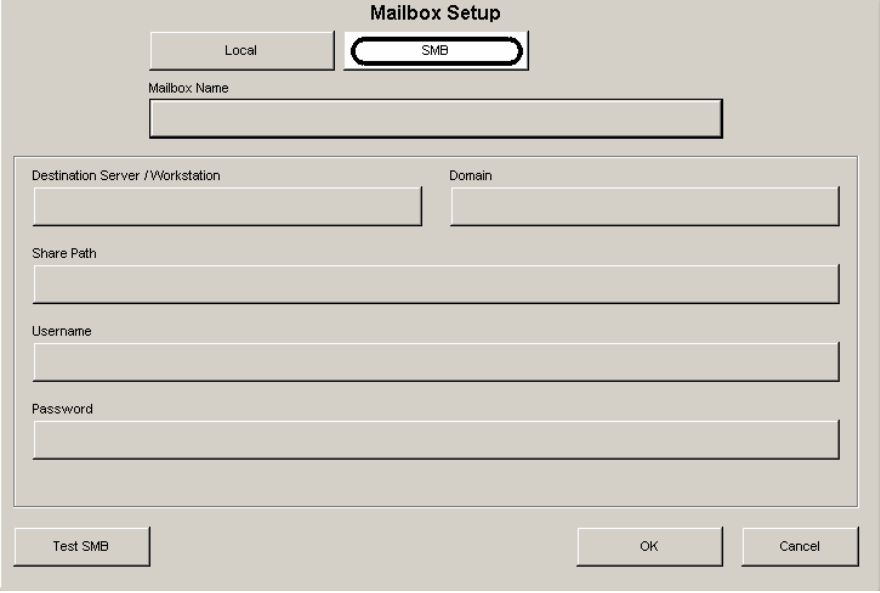
### **2.7.4.1 Share Setup – Workstation/Server**

When setting up a share at a workstation or server, it is necessary to have some information ahead of time.

- User must have rights to share a folder
- User must know where the access rights are held
  - Rights are local to the PC or Domain (Active Directory)
- File and Print Sharing must be enabled within the Windows XP firewall settings
- User must be able to read, write and modify the destination SMB folder
- User must know login username and password

### 2.7.4.2 Network Location (SMB/CIFS) – IPS Setup

Server Message Block/Common Internet File System (SMB/CIFS) allows the user to create a semi-permanent connection to a network resource for scan to file.

The image shows a 'Mailbox Setup' dialog box. At the top, there are two buttons: 'Local' and 'SMB', with 'SMB' being the active selection. Below this is a text field labeled 'Mailbox Name'. The main section of the dialog is enclosed in a rounded rectangle and contains four text fields: 'Destination Server / Workstation', 'Domain', 'Share Path', and 'Username'. Below these is a 'Password' field. At the bottom of the dialog, there are three buttons: 'Test SMB', 'OK', and 'Cancel'.

Function Button	Description
Mailbox Name	Descriptor to be displayed on SCAN screen (Preceded by SMB:) This will turn green when connected
Destination Server/Workstation	IP address or NetBIOS name of destination workstation/server
Domain	Name of authorization provider (Domain server or workgroup workstation)
Share Path	Shared resource on destination workstation/server
Username	Login credentials on destination workstation/server
Password	Password for supplied username on destination workstation/server
Test SMB	Maps a network drive to the destination workstation/server

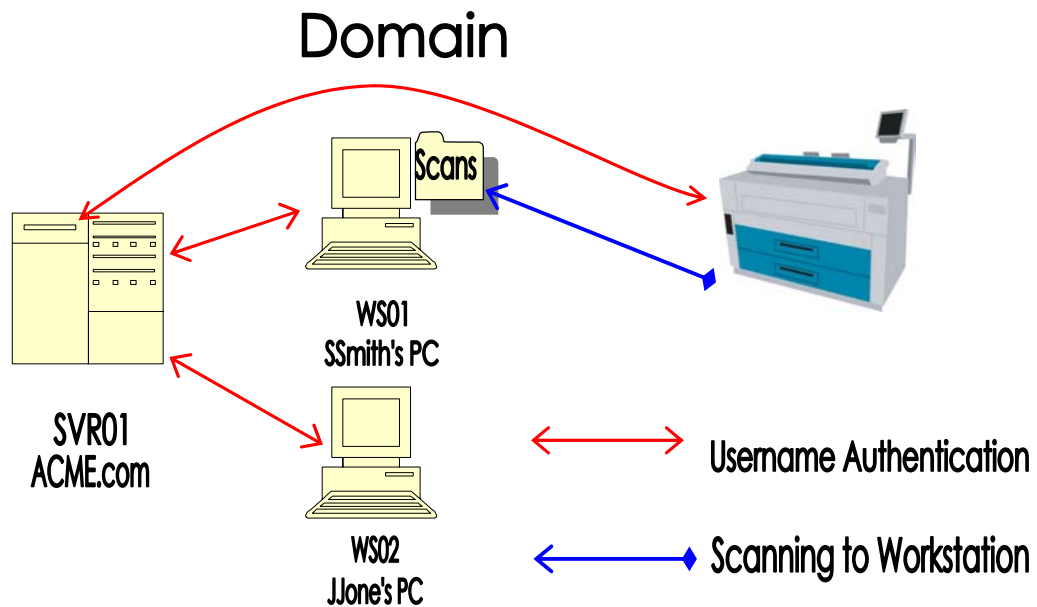
Within the SCAN screen, press the **Mailbox** button to create an SMB connection.

- a) Touch the **SMB** button to display the SMB Mailbox creation dialog.
- b) Press the **Mailbox Name** button to enter a descriptive name for the SMB scan to file location. This description will be displayed on the SCAN screen with the label of SMB: [Mailbox Name].
- c) Touch **Destination Server/Workstation** button to enter the NetBIOS name or IP address of the destination server or workstation that the KIP IPS will connect to in order to allow for scan to file.
  - a. This must be a server or workstation that the KIP IPS has access to via TCP/IP.
  - b. Please ensure that the KIP printer has been networked properly and is “pingable” from the destination server/workstation.
- d) Touch **Domain** button to enter the client authorization information. This entry will work in conjunction with the Username/Password entries as defined in later steps.

- c. Some facilities will have user credentials stored on a central authorization server (Domain Controller/Active Directory Server) that will grant connection access to the KIP IPS for shared resources. If the KIP IPS is connecting to a workstation (WS01) that is a part of the Acme.com domain, then the user would enter Acme in the Domain section. The KIP IPS would get authorization credentials from the SVR01 server in order to scan to the “Scans” folder on the WS01 workstation (SSmith's PC).

The image shows a 'Mailbox Setup' dialog box with the following fields and options:

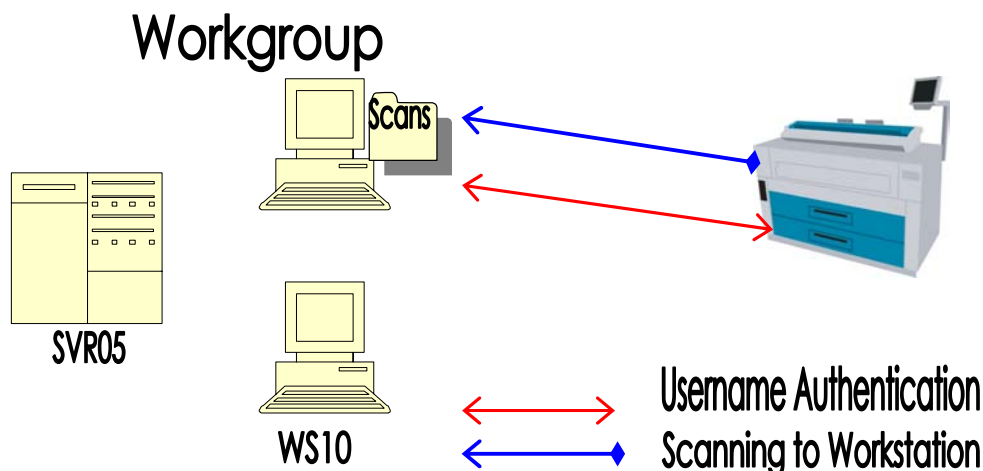
- Local** (radio button) and **SMB** (radio button, selected)
- Mailbox Name**: Images
- Destination Server / Workstation**: WS01
- Domain**: Acme
- Share Path**: scans
- Username**: Acme\SSmith
- Password**: \*\*\*\*
- Test SMB** button
- OK** and **Cancel** buttons



- d. If the KIP IPS is in a workgroup setting (No Domain Controller/Active Directory Server), the authorization credentials will be supplied by the destination workstation/server (WS06). If the user is connecting to a shared resource on a workstation (Scans folder) with the NetBIOS (computer) name of WS06, the user would input WS06 for the Domain section. The KIP IPS would get the authorization credentials from the WS06 workstation.

The 'Mailbox Setup' dialog box has the following fields and options:

- Local** (radio button) and **SMB** (radio button, selected)
- Mailbox Name**: Images
- Destination Server / Workstation**: WS06
- Domain**: WS06
- Share Path**: scans
- Username**: WS06\SSmith
- Password**: masked with asterisks
- Test SMB** button at the bottom left
- OK** and **Cancel** buttons at the bottom right



- e) Touch the **Share Path** button to enter the name of the shared folder on the destination workstation or server.
- The shared folder on the destination workstation must be accessible by the user as supplied in the **Username** setting.
  - These permissions should include the ability to write and modify on this shared folder.
- f) **Username** and **Password** should be set as an accessible login username from either the workgroup workstation/server or the authentication server/domain controller.
- g) Touching on **Test SMB** will make the KIP IPS attempt to establish a connection to the destination workstation/server.
- The connection is established when the SMB mailbox is selected and is disconnected when:
    - Switching Formats
    - Pressing the **STOP** button
    - Switching menus (SCAN, COPY, JOB INFO, ?)
    - Selecting another mailbox
    - Creating another SMB mailbox
    - Reset timer expiration
    - Log off



It is possible to scan all file formats to an SMB location. Please note that color image data is much larger and may take considerable network resources in order to transfer from the IPS to the SMB location. (A full color, 600 DPI, tiff packbit can be several gigabytes in size).

When scanning multi page documents (PDF, DWF and TIFF), the images are scanned to a temporary location on the IPS and then transferred to the SMB location once the **Close File** button has been pressed.

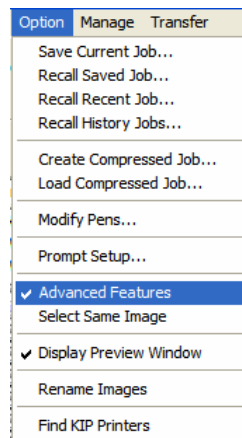
### **SMB Locations**

Please contact your network administrator for details on how to configure SMB locations on the workstation.

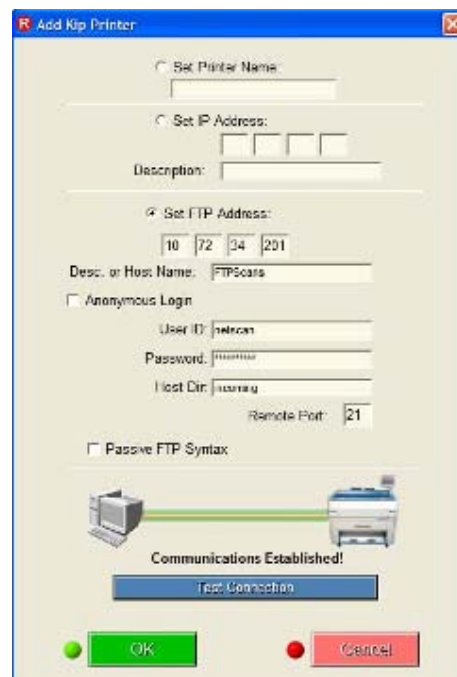
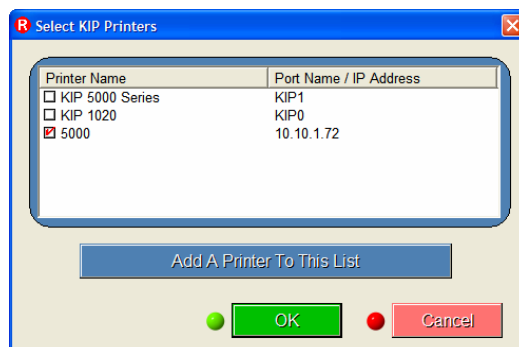
#### **2.7.4.3 FTP Site**

To load and access FTP locations on the KIP device please follow these steps:

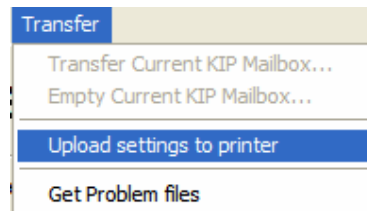
- a) In Request, enable **Advance Features** by selecting the **Options** menu and selection **Advanced Features**



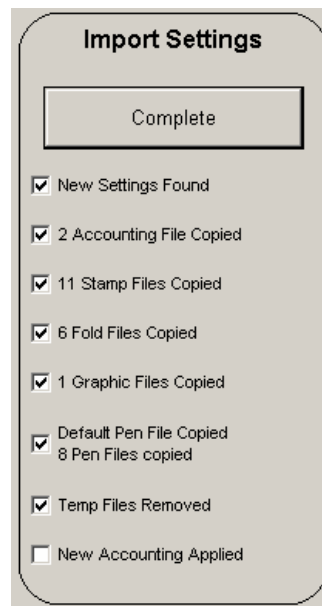
- b) Click **Options** and then select **Find KIP Printers** and the **Add a Printer to this List**. Select **Set FTP Address** and enter the necessary FTP information



- c) Send to the KIP IPS by using **Transfer** and then **Upload Settings to Printer**



- d) At the KIP IPS, enter (?) and then **Service**. Once you are in the Service menu, (password required) use the arrow keys at the bottom until "Import Settings" is shown (this will appear grayed out at first) touch the button labeled **Touch**. This will import any new FTP settings and will be displayed on the SCAN screen. These will be in the form FTP:[FTP Description].



## 2.8 Start

No function at this time in Scan Mode.  
All scans in Scan Mode are “Auto Start”.

## 2.9 Reset / Stop

This button has two functions.

- 1) Press the Stop button to stop the current scan. The original will be ejected automatically. If not, open Top Cover to remove the original.
- 2) Press the Reset button to restore the “default settings” in Scan Mode. Some of the default settings are determined in the Information / Help Screen of the UI. (see Scan Mode Configurations chapter)



## 2.10 Re-Scan

If the scanned image was not satisfactory, you can replace the last image scan by selecting this button and proceeding with the scan procedure as normal.



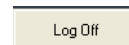
## 2.11 View Last

Allows the last scan to be reviewed again on the UI.



## 2.12 Log Off

This button may be displayed if accounting is enabled. Press this button to log off the current user after the scanning has been completed.



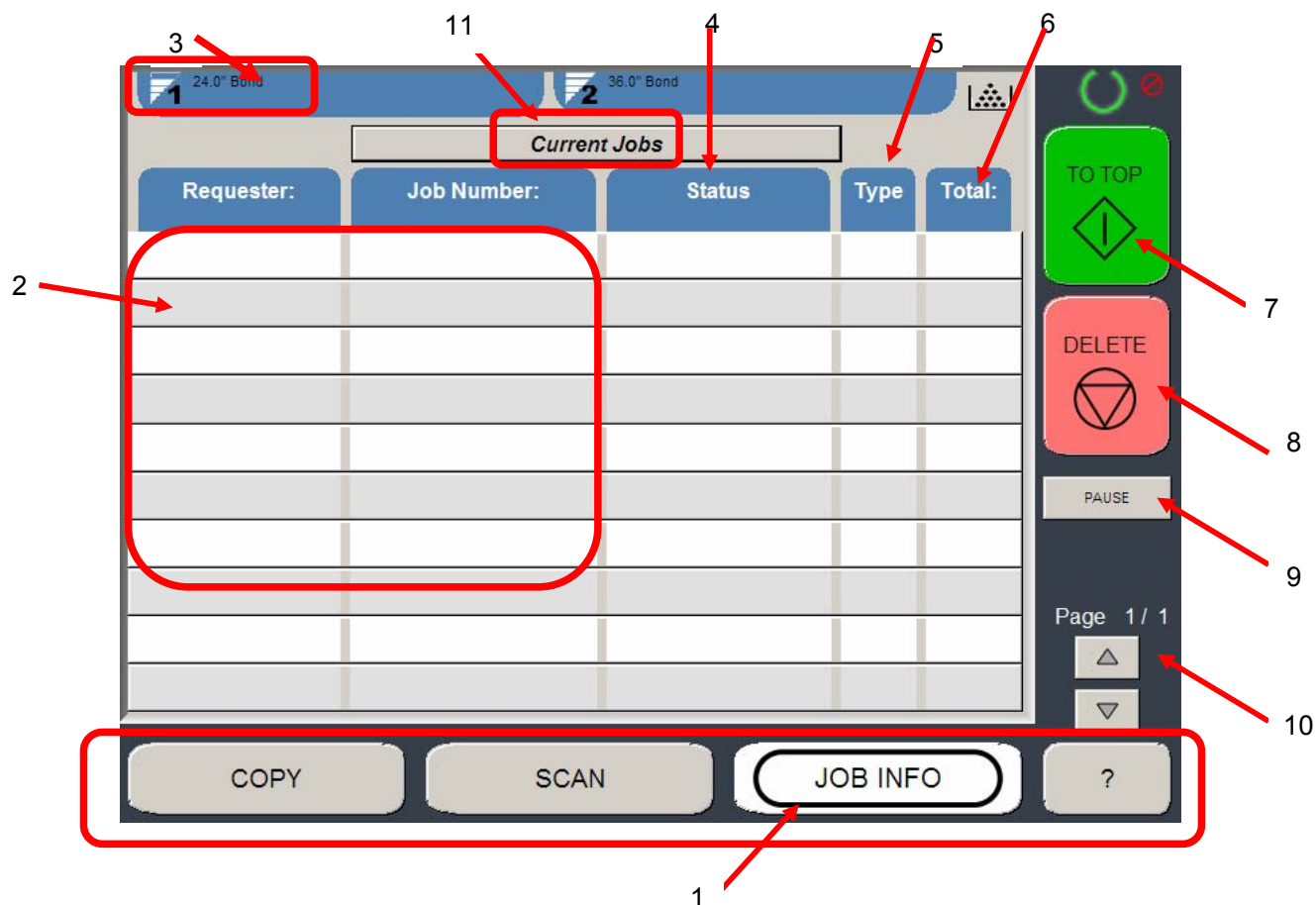
## Section 6

# Job Info Screen

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	2.14 Job History	6- 11

# 1. 0 Job Info Screen

## 1.1 Main Screen



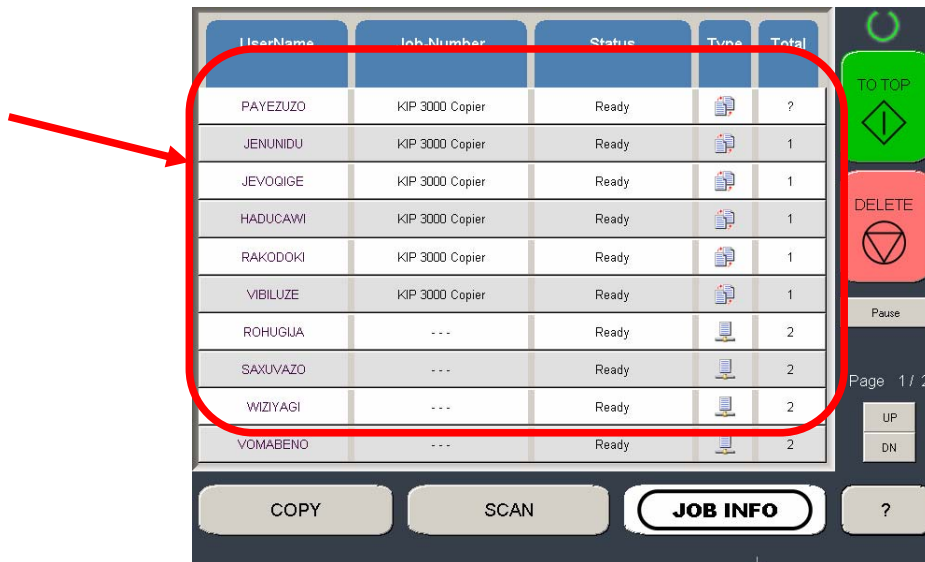
No.	Name	Function
1	Mode	Selects the "Mode" of the system. (Job Mode for this screen shown)
2	User Name – Job #	Display the User and any user info for the job ID. A job can be selected for other functions noted below.
3	Media Information	Displays and allows change of the Width and Type. Shows the amount remaining per roll deck. (two or four rolls depended on system)
4	Status	Shows the current status of a job and media selection.
5	Type	Displays a copy or network print job
6	Total	Displays the total number of prints and current number printed.
7	To Top	After a job is selected (see #2) the position in the queue can be changed to the next job printed.
8	Pause	Pauses printer to allow media change, etc
9	Delete	After a job is selected (see #2) it can be removed from printing.
10	Up/Down	Scrolls through pages in the queue if so available.
11	Job Info/Job History Switch	Switches between Job Info and Job History screen if enabled.

## 2.0 Operation Details

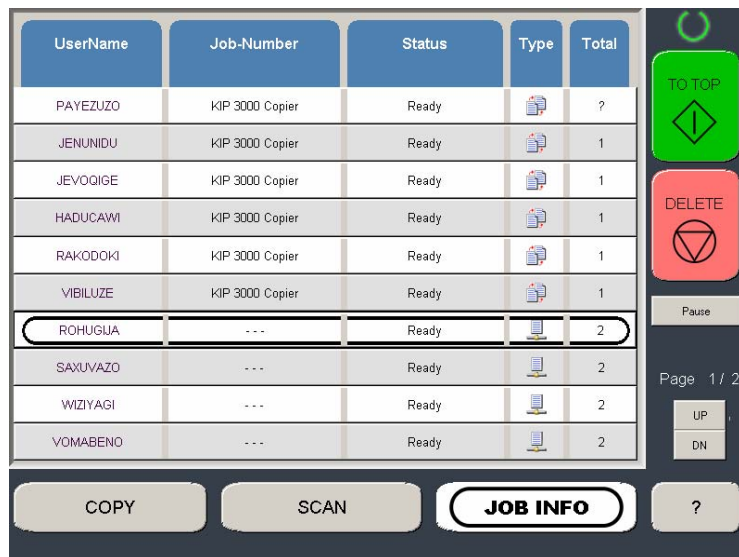
The Job Info screen is used to view or manage the current copy or prints jobs on the KIP 5000.

### 2.1 Job List - Main Screen

All jobs that are currently printing or are waiting to print are displayed in this area.



You may view a jobs details, (or for other functions described further in this manual) by selecting the job from the list



## 2.2 User Name

Displays the “Name” or the “owner” of the job

This information is obtained from fields within:

- a) KIP Request
- b) KIP Windows Driver
- c) KIP AutoCAD Driver
- d) Or from the Accounting Fields on the copier when accounting is enabled

UserName
John Smith
JMARSJR
A Divetta

Please see respective User Guides for detailed information

An example screen from Request:

Requester:	
Job Number:	
Description:	

## 2.3 Job Number

Displays the “Job Number” or details regarding the job

This information is obtained from fields within:

- e) KIP Request
- f) KIP Windows Driver
- g) KIP AutoCAD Driver
- h) Or from the Accounting Fields on the copier / scanner when accounting is enabled

Job-Number
Job X-98765432 0-X
---
123-45678

An example from Copy / Scan Accounting:

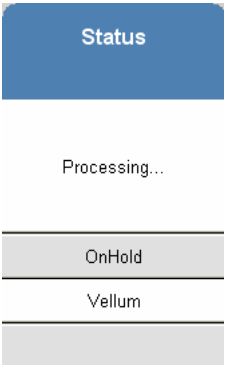
UserName	Job-Number
Required	Required
AJones	01-010-123
BSmith	0-234-45f-4
CWinn	0 237A 15f A

## 2.4 Status

Displays the current “Status” of a job.

Displays one of the following:

- a) Processing – job is currently printing
- b) On Hold – puts the job in the queue but will not print until a valid media type is applied
- c) Vellum – Media required - Vellum
- d) Film – Media required - Film
- e) Bond – Media required - Bond



## 2.5 Type

Displays the source of the job, jobs can be sent from the network or come from the copier functions.

For network jobs, the following symbol is displayed:



For copy job the following symbol is displayed:



## 2.6 Total

Displays the number of prints, this includes:

- a) the quantity in each job
- b) the amount remaining , when a job is printing.

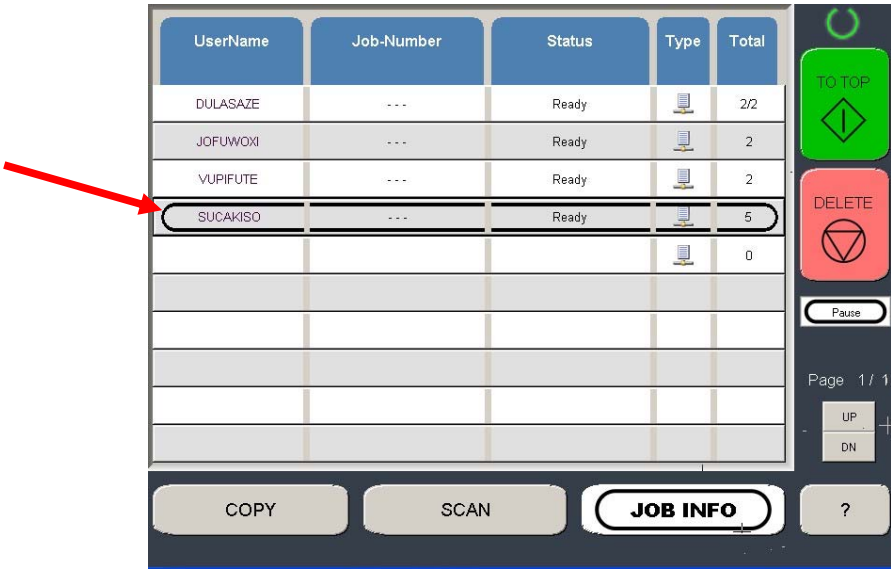




## 2.7 Delete

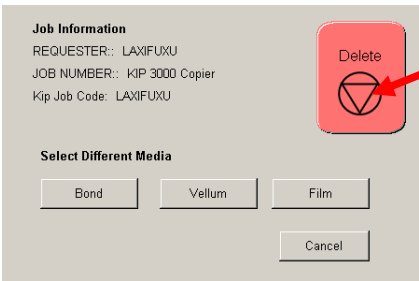
To remove a job from the Job list:

- a) Select the job to remove



Another Screen will appear.

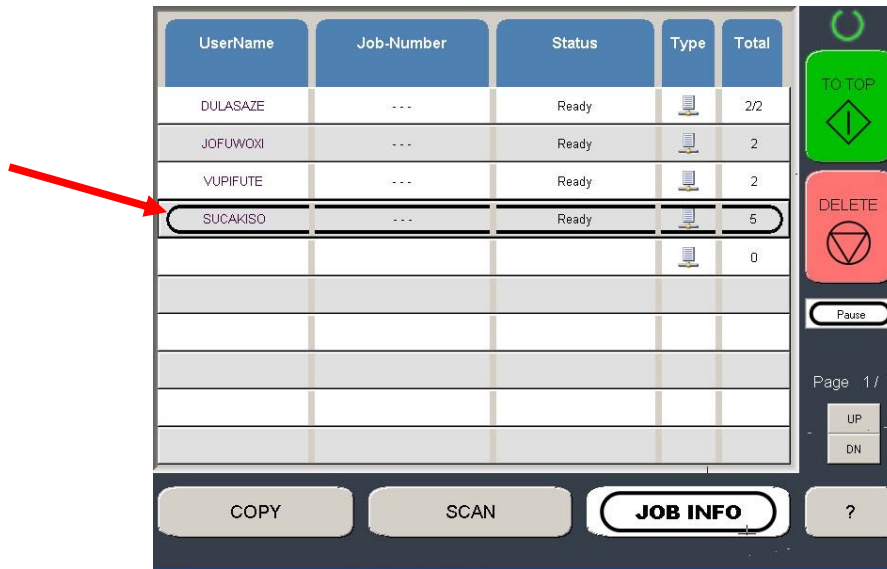
- b) Press the Delete button
- c) The job will be removed from the list.



## 2.8 Change Media Type in Print Job

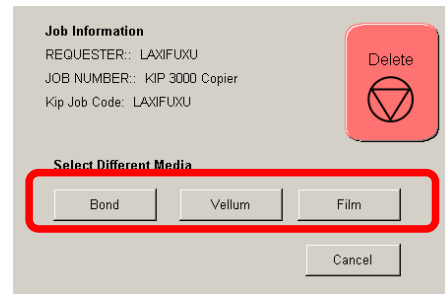
To change the media type in a job that may be in the job list:

- a) Select the job



- b) Job Information screen will appear.

- c) Press the Bond, Vellum or Film button to set the new media type for this job.



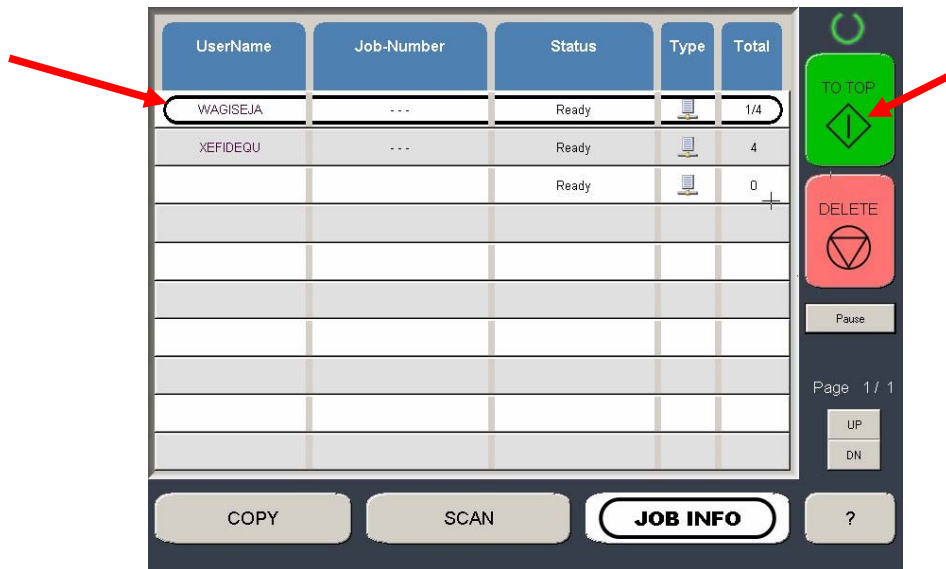
## 2.9 To Top

If a job in the list is required urgently and there are other jobs in the list prior to it, the job can be moved to the top of the queue.

- a) Select the job from the list



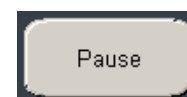
- b) Press the “To Top” button



- c) The list will be updated with urgent job to be printed next.

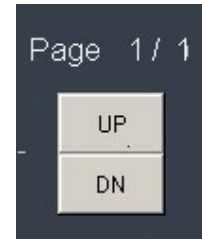
## 2.10 Pause

To pause all print jobs (to replace paper or perform another task that may require the printer to pause) press the pause button.



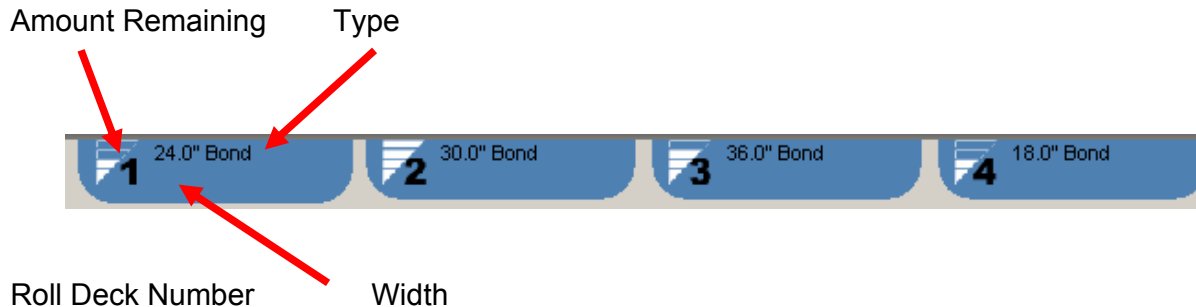
## 2.11 Page Scroll

Arrows may appear in the lower right corner of the screen to scroll through the pages of jobs. Please note that the total number of pages will be displayed as well as the current page.



## 2.12 Media Information

At the top of the Job List Screen is the region that displays the current media loaded in KIP 5000. Please note that only rolls the printer has will be displayed.



### a) Roll Deck Number

### b) Amount Remaining: shows the quantity of media in $\frac{1}{4}$ steps.

Example: Roll 1 is full  
Roll 2 is  $\frac{1}{4}$  full  
Roll 3 is  $\frac{3}{4}$  full  
Roll 4 is also full  
If no media installed then all bars would be empty

### c) Type: Shows the media type ( set by User )

Example: Roll 1 is Bond  
Roll 4 is Vellum

### d) Width: Shows the set width ( set by User )

Example: Roll 1 is 30"  
Roll 2 is 36"  
Roll 3 is 24"  
Roll 4 is 11"

## 2.13 Change Media Information

At the top of the Job List Screen is the region that displays the current media loaded in KIP 3000. Please note that only rolls the printer has will be displayed.

- a) Touch any blank blue area of this region to the set media type and width in all roll decks



- b) Select the correct media width and type for each deck as required ( two roll model screen shown below )

Define Roll

1	36"	34"	30"
24"	22"	18"	17"
15"	12"	11"	
Vellum	Bond	Film	

2	36"	34"	30"
24"	22"	18"	17"
15"	12"	11"	
Vellum	Bond	Film	

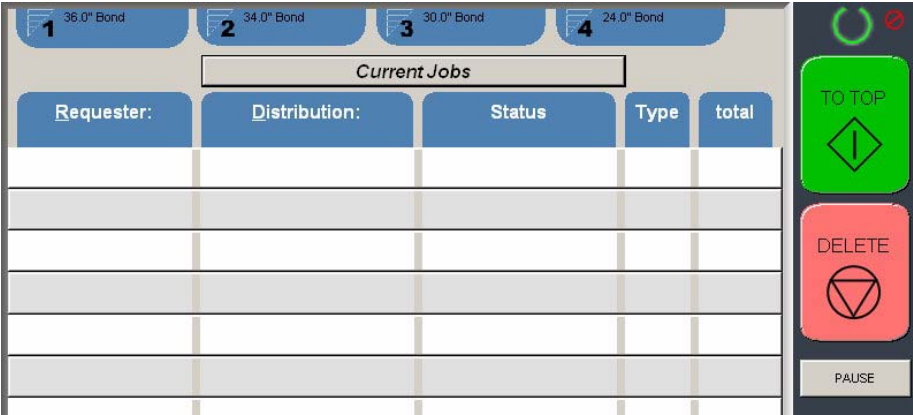
OK Cancel

- c) Select OK to set
- d) The new settings will be noted on the top of the Job Info Screen

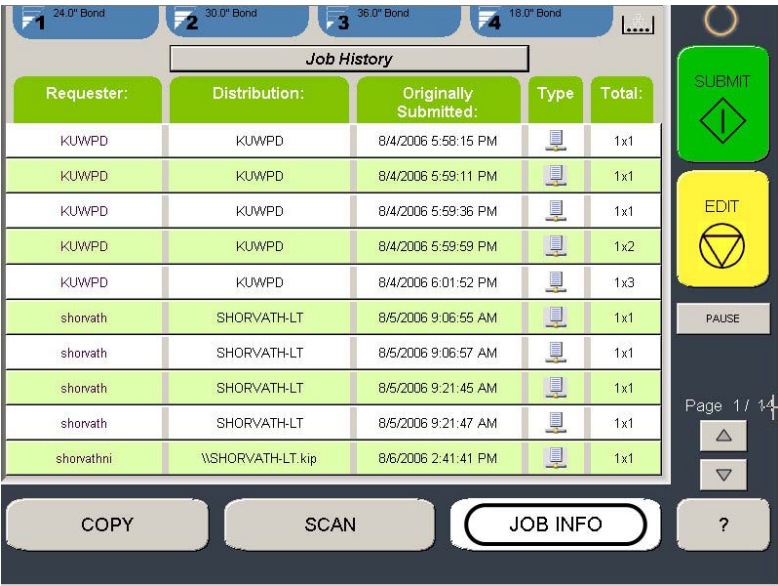
# 2.14 Job History

KIP Job History can be used to call up and print jobs that were previously printed. By selecting a job from the Job History list, the job can be changed and resubmitted for printing.

1. To use the KIP Job History select the Job Info Button and click on the Current Job button



2. The Job History Information will now be displayed on the screen and select the job to be edited.



3. Select the Edit Button to access the available options for the current selected job.



- Users have the option to change Accounting information, Media type, Number of Originals and number of sets. Or to delete the job from History.

The screenshot shows the 'Job Editor' interface. At the top, there are tabs for '24.0" Bond' and '35.0" Bond'. Below the tabs is a 'Job History' section. The main area is titled 'Job Editor' and contains several sections: 'Requester: KUMPD', 'Distribution: KUMPD', 'Description: KJP Job Code QUMUMEVO', and an 'Apply Current Login Settings' button. Below this is a 'Select Different Media' section with buttons for 'Bond', 'Vellum', and 'Film'. At the bottom, there are fields for 'No. of Origs.' (001) and 'No. of Sets' (001), with navigation arrows between them. A 'Cancel' button is also present. On the right side, there are large buttons for 'SUBMIT' (green with a diamond icon), 'DELETE' (red with a circle icon), and 'PAUSE' (grey). At the bottom of the screen, there are buttons for 'COPY', 'SCAN', 'JOB INFO', and a question mark icon. The page number 'Page 1 / 14' is visible on the right side.

- When all changes (if any) are complete select the Submit button to send the job to the printer.



## Section 7

# “?” Screen

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# 1.0 Help – Configuration Screen

---

## 1.1 Overview

The KIP printer has the ability to display information about the system and allow detailed configuration or setting of the KIP printer for Copy and Scan modes. It also has visual user guides which can assist the user in perform the functions of the KIP printer.

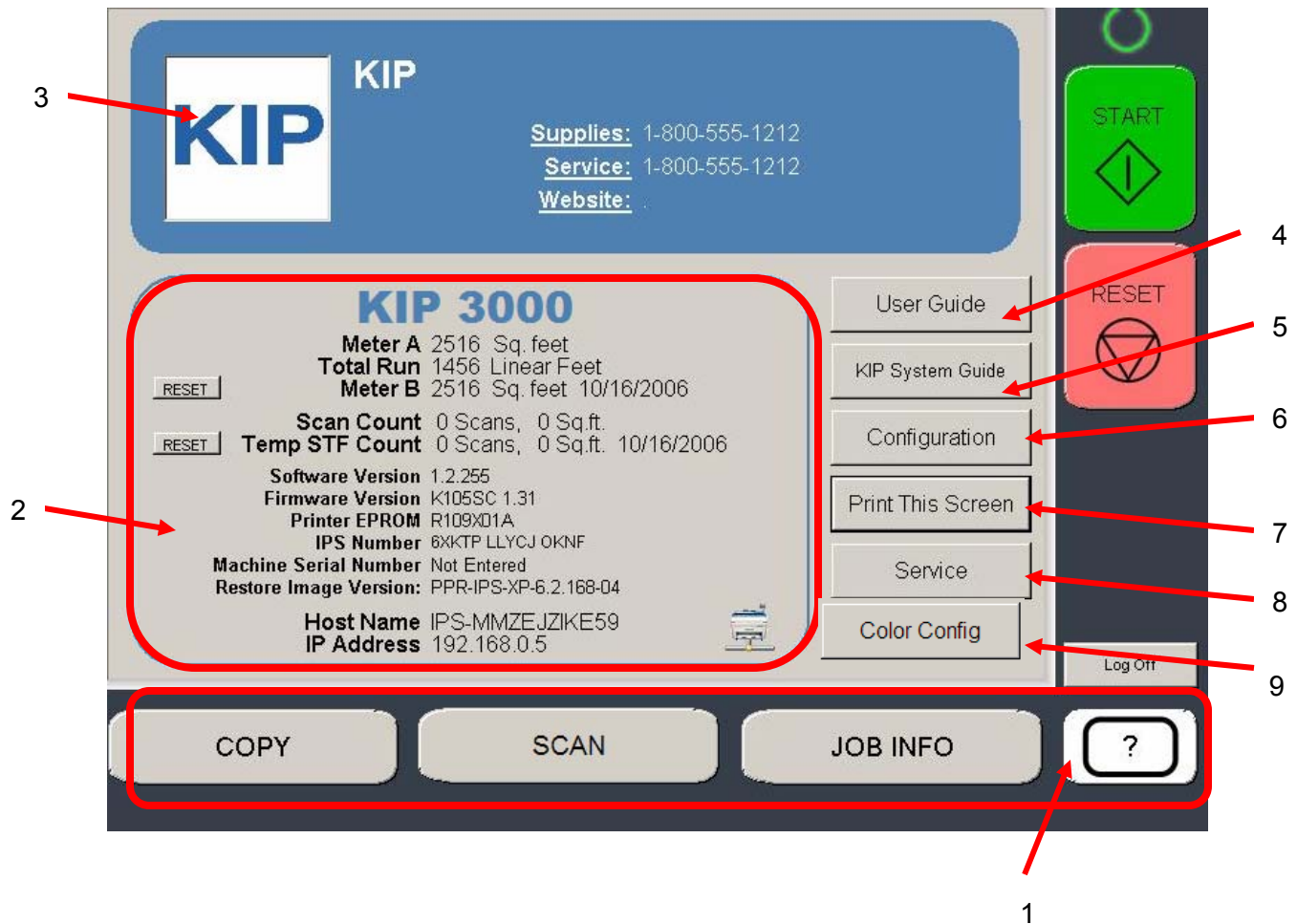
To Enter the “Help – Configuration” screen press on the “?” on the bottom right of the KIP printer user interface and then press the CONFIGURATION button.

Some of the configurable settings include:

- a) Language
- b) Sleep Timers
- c) Energy Star - Mode
- d) Reset Timer for Memory and Default Settings
- e) Printer Density
- f) Master Lead / Trail Edge
- g) Default Mode
- h) Units (Metric or Inch)
- i) Default Original Size Mode
- j) Quality / Scan Speed
- k) Number of Rolls
- l) Shading
- m) Test patterns
- n) Enable Options
- o) Network IP settings

Some of the above settings will require access by the system administrator, key operator or a certified service technician.

## 1.2 “?” Screen – General



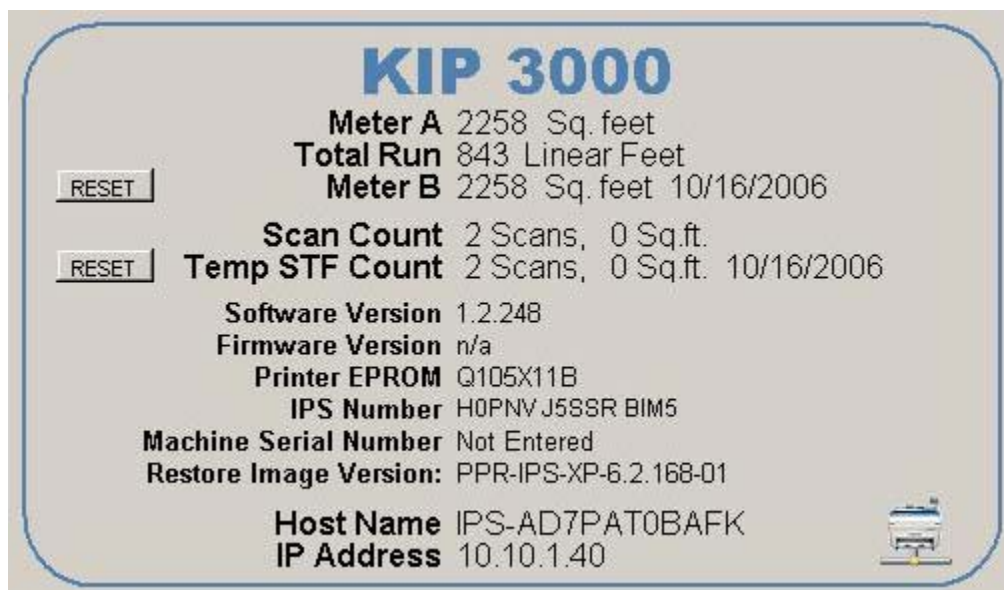
No.	Name	Function
1	Mode	Selects the “Mode” of the system. (Help Mode shown)
2	Information Region	Displays meter counts and version number of the system.
3	Support / Supplies	Displays the contact information for technical support and printer supplies.
4	KIP System Guide	Basic guide for features and functions
5	Configuration	Enters the settings and configurations modes.
6	Configuration	Enters the settings and configurations modes.
7	Print This Screen	Prints the main “?” screen on the KIP printer
8	Service	Password protected area for KIP authorized technician use.
9	Color Config	Configures the optional color scan and color copy features.

## 2.0 Main Screen - Details

---

### 2.1 Information Region

This area of the Screen includes meter counts and software versions.



#### 2.1.1 Meter A

Displays the total number of units run on the printer. This counter should match the hard counter on the right mid- front section on the printer. This unit is in square feet in North America and in Square Meters in all other countries. (when printer set to metric mode)

**English mode: 1 count = one square foot**

**Metric Mode: 1 count = one square meter**

#### **NOTE**

If this counter differs from the hard counter on the printer, contact your local service company!

The units of this counter are from the internal processor of the printer and can be "reset" if care is not taken upon replacement of the DC Controller if ever so needed. Please see KIP printer's Service Manual for details on the setting procedures.

Any discrepancies: the hard counter shall be taken as the correct value!

### 2.1.2 Total Run

This meter counts the total number of linear meters run on the printer in all countries.

**One count = one linear meter**

#### **NOTE**

The units of this counter are from the internal processor of the printer and cannot be “reset” unless the DC Controller is replaced or FIRed. Please see KIP printer’s Service Manual for details on the setting procedures.

Any discrepancies: the hard counter shall be taken as the correct value!

### 2.1.3 Meter B

This counter can be reset at any time to count the units in a particular job. The date of last “reset” is also displayed. This counter’s units are the same as Meter A. Press the reset button to start at “0”.

### 2.1.4 Scan Count

Displays the total scan count of the “imaged” area. If the original was larger than the saved imaged area only the saved imaged area is recorded. If the incorrect original size was selected, the selected will be recorded.

Example:

With a 24x36 original

- 1) If the original was feed 36” wide with a 36” wide setting on the User Interface then 6 sq ft recorded.
- 2) If the 36” wide original was scanned in at a 24” wide manual setting, the size will be recorded as 24x24 or 2 square feet.

### 2.1.5 Scan Count- Temp

This counter can be reset at any time to count the units in a particular job if so required. The date of last “reset” is also displayed. This counter’s units are the same as in Scan Count. Press the reset button to start at “0”.

### 2.1.6 Software version

Displays the software IPS version for technical support.

### 2.1.7 Firmware Version

Displays the printer firmware version for technical support.

### 2.1.8 IPS Number

Displays the current IPS number, this is required for any optional upgrades to the KIP printer.

### 2.1.9 Machine Serial Number

Displays the KIP printer hardware serial number, this is also located on the lower rear of the printer.



#### NOTE

If this serial number differs from the “hard coded” number on the lower rear of the printer, contact your local service company! The hard code serial number is to be taken as correct in case of any discrepancies.

## 2.2 Supplier / Technical Support

Displays the contact information for KIP printer supplies and service. This region should display your local Authorized KIP dealers' information. If this information is incorrect, please contact your KIP dealer.



## 3.0 User Guides

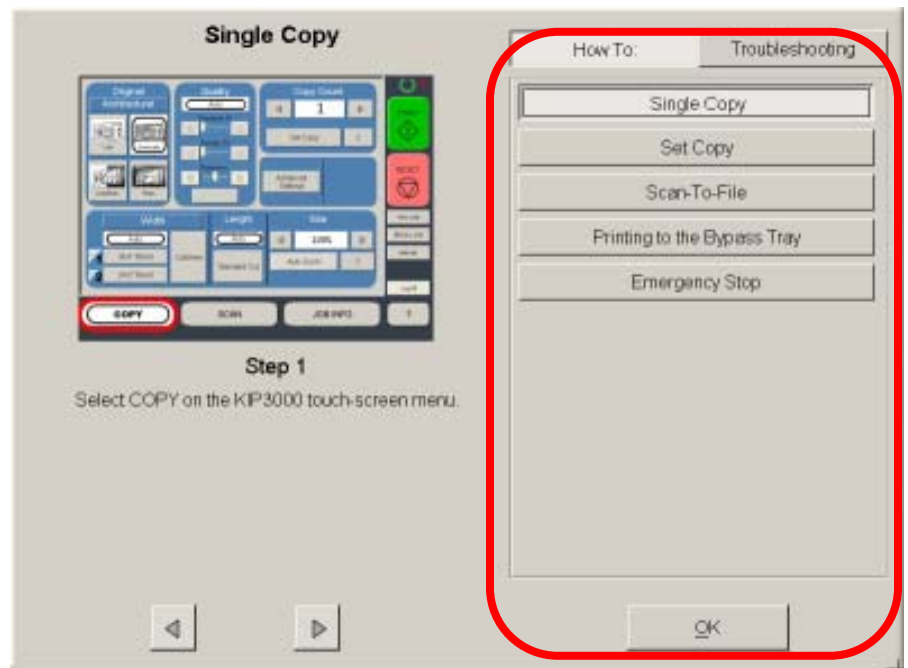
---

Press the User Guides button to gain access to the KIP printer User Guides on the KIP printer.

The User guides cover the most basic functions of the system operations including media / toner replacement on the KIP printer. For comprehensive details please consult this User Manual.



- a) Select this function when assistance is required with.
- b) Use the arrow buttons to move through the guide.
- c) Press OK at any time to exit the guides.



## 4.0 Configuration

---

There are six pages in the Configuration.

### Page 1 of 6

The screenshot shows a configuration screen titled "CONFIGURATION" with the subtitle "Setup Menu 1". The screen is divided into several sections:

- Power Save Settings:** This section contains four time input fields. "Warm Sleep Timer" is set to "00:15:00" and "Cold Sleep Timer" is set to "01:00:00". "Sleep Time" and "Wake Time" are each represented by two empty boxes separated by a colon. Below these fields is a yellow padlock icon and an "Apply" button.
- Default to:** This section contains three buttons: "COPY Menu", "SCAN Menu", and "JOBINFO Menu".
- Monochrome Quality Settings:** This section contains a single button labeled "Restore to Default".

At the bottom of the screen, there is a navigation bar with a left arrow button, the text "1 / 6", a right arrow button, and an "OK" button.

## 4.1 Power Save Settings

The KIP printer incorporates timers to save power and place the printer in “cold sleep mode” to suit individual company production requirements. These timers can be used to automatically turn off the printer when the “office is closed”, for example overnight.

**Energy Star Settings** – Energy Star compliant settings require that the printer goes to Warm Sleep after 15 minutes and into Cold Sleep after 90 minutes of inactivity. These are the factory setting and can be achieved by selecting “Reset”. There are two sleep mode settings to choose from, only one can be active at a time and these are locked by default in the Services settings.

1. Warm/Cold Sleep Timers – This timer can be set to put the printer into a warm/cold sleep mode after a predetermined period of inactivity.
2. Sleep Time – This time is used in conjunction with the computers clock and is used to put the Printer to sleep at a pre-set time and wake the printer back up at a pre-set time.

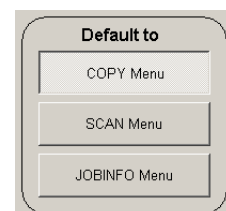


Locked or Unlocked in “Service”

- a) If the Timers are locked they must first be unlocked in Service Menu. (by a certified Service Technician)
- b) Set the timers by pressing on the hour, minutes and AM/PM as needed.
- c) If the printer is required during the “sleep” period, it will “awake”, produce the prints and then “fall asleep” again, 15 minutes later.

## 4.2 Default Mode

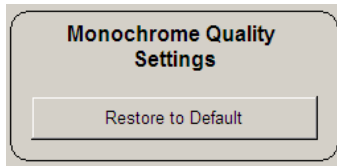
Sets which screen will be the default, Scan, Copy or Job Info Mode dependent of the installation environment requirement.



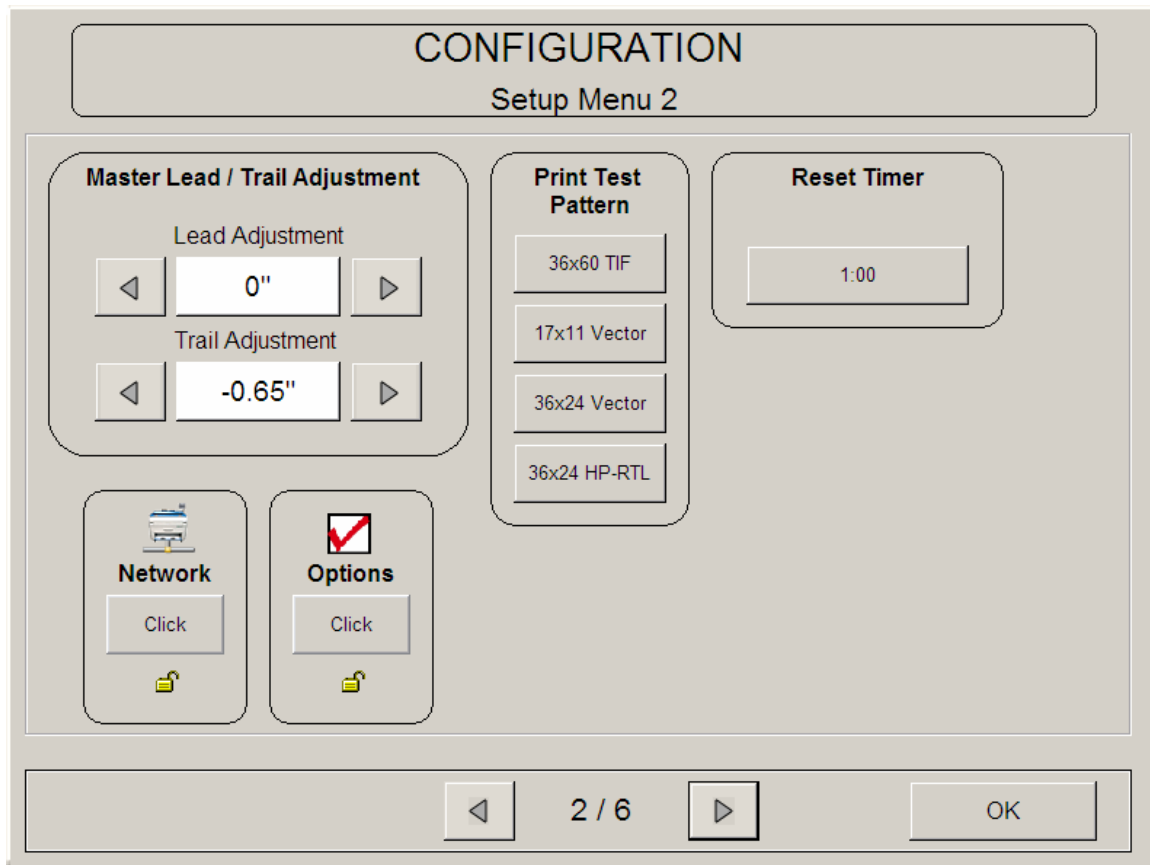


## 4.3 Monochrome Quality Settings

Clicking this button will return the main COPY and SCAN settings to the default factory values.

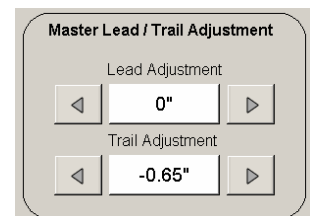


## Page 2 of 6



## 4.4 Master Lead / Trail Adjustment

The leading and trailing edges on copies or scans can be adjusted to best suit user requirements. This adjustment adds or removes image / media from all scans and copies and should be considered a default setting of such.



## 4.5 Test pattern

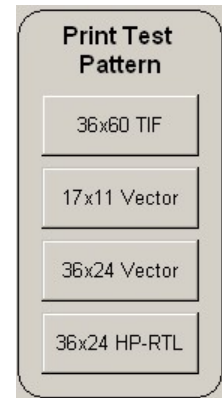
A variety of test patterns may be printed from the KIP printer operator panel on an on-demand basis. The following four predefined test patterns are available to assist in pen table selection and overall quality verification.

**36" x 60" tif** – Used to test long printing and calibrate scan/copy operations

**17" x 11" plt** – Used to calibrate lead/trail edge settings

**36" x 24" plt** – Used to calibrate lead/trail edge settings

**36" x 24" hprtl** – Used to test output of mixed raster and vector data



## 4.6 Options

Enables options on the KIP printer. Please contact your local dealer for more details and for the Key Code for your system.

### ! NOTE

Incorrect codes may prevent your system from functioning. Please do not enter or modify the current code without your supervisor's permission. The codes may be locked and only accessed granted by a technician.

## 4.7 Network

Please see the KIP printer's manual.

### ! NOTE

Incorrect settings may prevent your system from functioning. Please do not enter or modify without your Network Administrators permission. Access to modify may be locked and only accessed granted by a technician.

## 4.8 Reset Timer

KIP printer's system can be configured to revert to the Log-In screen after a predetermined period of inactivity. From this screen, users must enter a username and password before use (if required by system administrator). This Reset Timer will also revert all settings to the default values after the timer has expired.





## 4.9 Language

Set the UI into a desired language.

## 4.10 English or Metric Units

Set the system from “English Mode” to “Metric Mode” by pressing the English or Metric button. This will effect the entire KIP printer System, including Scan, Print and Copy. Please note that the printer must be set to the correct size mode for proper print function.

# Page 4 of 6

**CONFIGURATION**  
Menu Defaults

**Set COPY Defaults**

Apply

**Enable Interrupt**  
Yes

**Enable Fold Button**  
No

**Enable Cutsheet**  
Yes

**Set SCAN Defaults**

Apply

◀ 4 / 6 ▶ OK

## 4.11 Copy and Scan Menu Defaults

Each KIP printer provides powerful options regarding the preferred condition of the system upon start up. KIP printer operators may designate features to be active when the system is powered on to ensure efficient use.

- 1) Set up Copy or Scan Modes in their main menu to the desired features
- 2) Access the configurations menu by pressing (?)
- 3) Select the "Configuration" button
- 4) Press the "Set Copy Defaults" or "Set Scan Defaults" button

**Set COPY Defaults**

Apply

**Set SCAN Defaults**

Apply

- 5) Presets for either the Copy or Scan screens have now been designated.

## **4.12 Fold**

Sets the system to accept fold parameter loaded by KIP Request and enables the pull downs on the screens. Please contact your local certified service technician for configuration of this feature.

## **4.13 Cut Sheet**

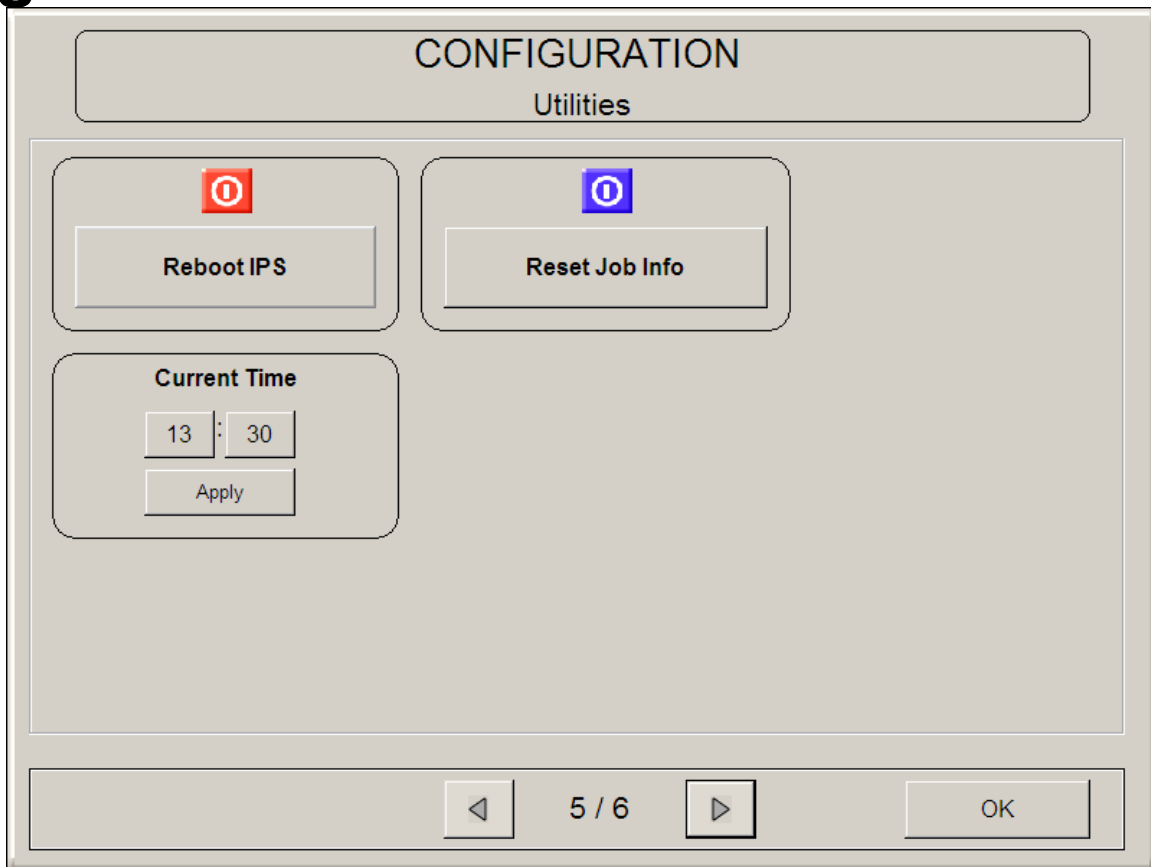
Enables / Disables the cut sheet function, which may not be required in certain installation.

## **4.14 Interrupt**

Allows the Interrupt button to function in Copy Mode.

- a) Enabled = allows the user to pause all network print jobs to allow copies to be printed first.
- b) Disabled = all copy jobs will be placed in the queue as the order they are received within any network print jobs.

## Page 5 of 6



### 4.15 Reset Job Info

If the current job in the Job Info queue is printing unsuccessfully, the user can manually cancel the file within that job. This is done by going into the "Help/Info" screen and then to "Configuration". Select the "Reset Job Info" button. An identification sheet will print out and the print queue can now continue printing.



### 4.16 Reboot IPS

This button will restart the IPS, when the system is not responding / printing correctly.

### 4.17 Current Time

Set the current time using the arrow buttons. Please note that the Time Zone may need to be set. Please contact your Local KIP Dealer to set the correct Time Zone.

CONFIGURATION

Density

Copy Levels

Printer Density

Light

Medium Light

Medium

Medium Dark

Dark

Dot Enhancement Level

OFF

Network Printing Levels

Printer Density

Light

Medium Light

Medium

Medium Dark

Dark

Dot Enhancement Level

2

6 / 6

OK

4.18Copy Density

Sets the printer toner density level. This affects all images that are sent via the KIP IPS COPY menu.

Copy Levels

Printer Density

Light

Medium Light

Medium

Medium Dark

Dark

Dot Enhancement Level

OFF

4.19Printer Density

Sets the printer toner density level. This affects all images that are sent via KIP Request, KIP Windows Driver, AutoCAD driver, KIP PrintNet, LPR, etc.

Network Printing Levels

Printer Density

Light

Medium Light

Medium

Medium Dark

Dark

Dot Enhancement Level

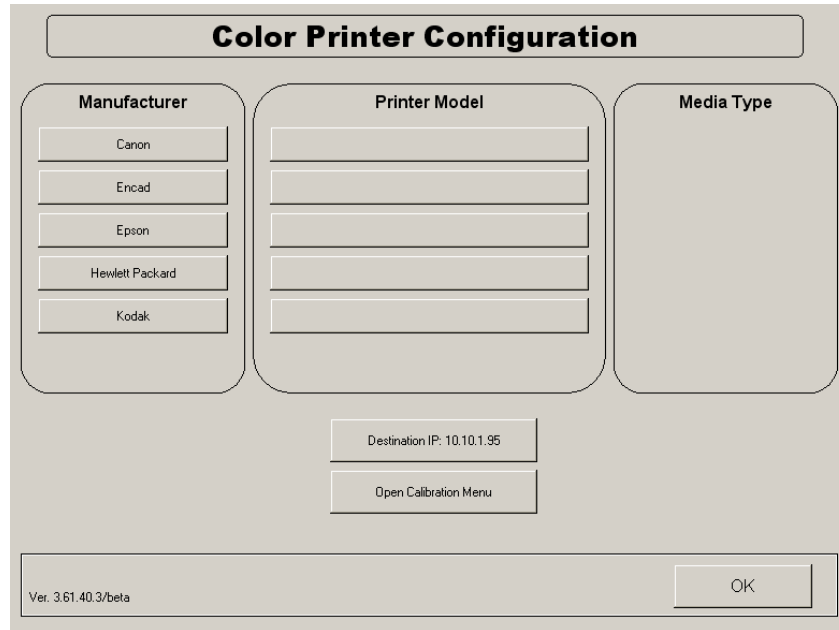
2

# Color Configuration

Color function is an option with the KIP system. Please contact your local dealer to acquire these functions if not already enabled.

This menu will allow

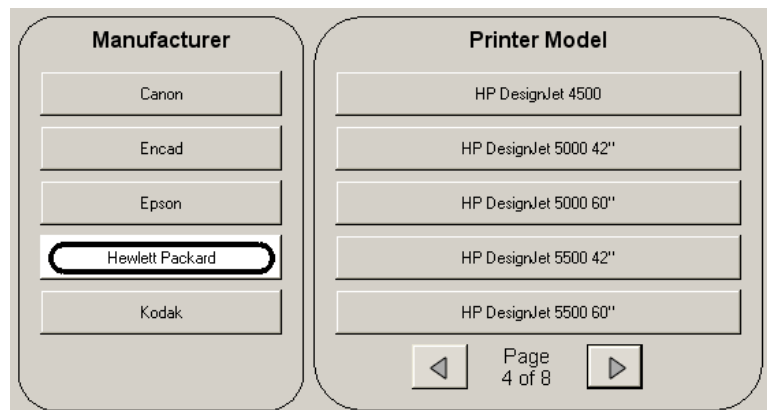
- A third party color printer to be connected to the KIP IPS.
- The KIP 600 to be calibrated to the printer and media type. This is a simple closed loop calibration.



The 'Color Printer Configuration' screen features a title bar at the top. Below it are three main sections: 'Manufacturer' with a list of Canon, Encad, Epson, Hewlett Packard, and Kodak; 'Printer Model' with five empty input fields; and 'Media Type' with a large empty area. At the bottom, there are buttons for 'Destination IP: 10.10.1.95', 'Open Calibration Menu', and 'OK'. A version string 'Ver. 3.61.40.3/beta' is located in the bottom left corner.

## 5.1 Manufacturer

For color mode operation (copy / scan), select from the list your third party color printer's manufacturer. If the manufacturer is not listed, it is not supported by the KIP system.



This screen shows the 'Manufacturer' and 'Printer Model' selection process. The 'Manufacturer' list includes Canon, Encad, Epson, Hewlett Packard (which is highlighted with a black border), and Kodak. The 'Printer Model' list contains five entries: HP DesignJet 4500, HP DesignJet 5000 42", HP DesignJet 5000 60", HP DesignJet 5500 42", and HP DesignJet 5500 60". At the bottom right, there are navigation arrows and a page indicator 'Page 4 of 8'.

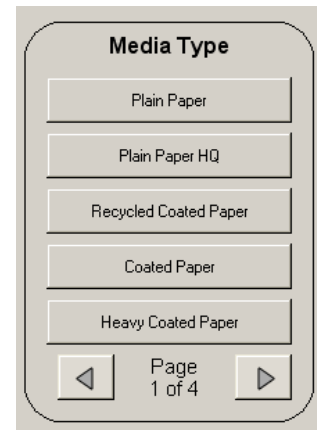
## 5.2 Printer Model

- After the manufacturer is selected, the model of your printer must be chosen.
- Please scroll through the list using the arrow buttons until your printer model is displayed.
- Select the model.



## 5.3 Media Type

Only some models of some manufacturers will require the media to be set. If displayed, select the media type that is loaded and will be copied onto.

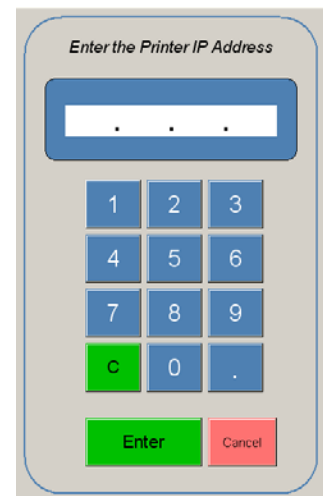


The screen displays a list of media types under the heading "Media Type". The options are: Plain Paper, Plain Paper HQ, Recycled Coated Paper, Coated Paper, and Heavy Coated Paper. At the bottom, there are navigation arrows and a page indicator showing "Page 1 of 4".

Media Type	
Plain Paper	
Plain Paper HQ	
Recycled Coated Paper	
Coated Paper	
Heavy Coated Paper	
◀	Page 1 of 4 ▶

## 5.4 Color Printer Destination IP

The specified printer will have an IP address assigned to spool data to it. Please enter the IP address here. Please contact your local IT administrator for this information.



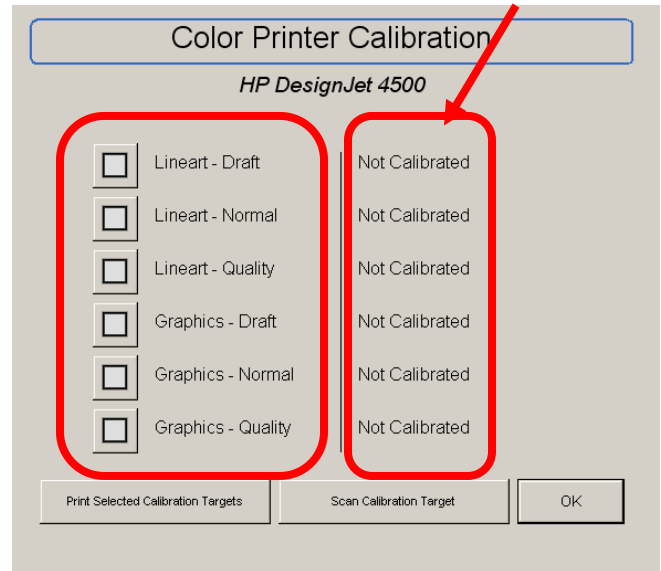
The screen displays a numeric keypad for entering an IP address. The title is "Enter the Printer IP Address". The keypad includes digits 1-9, 0, a decimal point, and a "C" (clear) button. At the bottom are "Enter" and "Cancel" buttons.

Enter the Printer IP Address		
[Input Field]		
1	2	3
4	5	6
7	8	9
C	0	.
Enter		Cancel

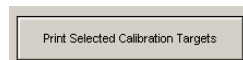
## 5.5 Color Printer Calibration

The six modes displayed in this screen reference the six modes in the “Copy” and “Scan” screens of the UI.

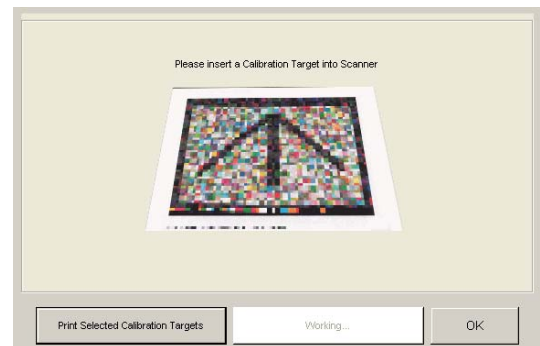
- a) On the right side of this screen shows if the mode has been calibrated.
- b) To calibrate a copy / scan mode select it.
- c) An “x” will appear beside the mode to be calibrated.



- d) Press “Print Calibration Target” button and an arrow with multicolored blocks will start to print from the device.



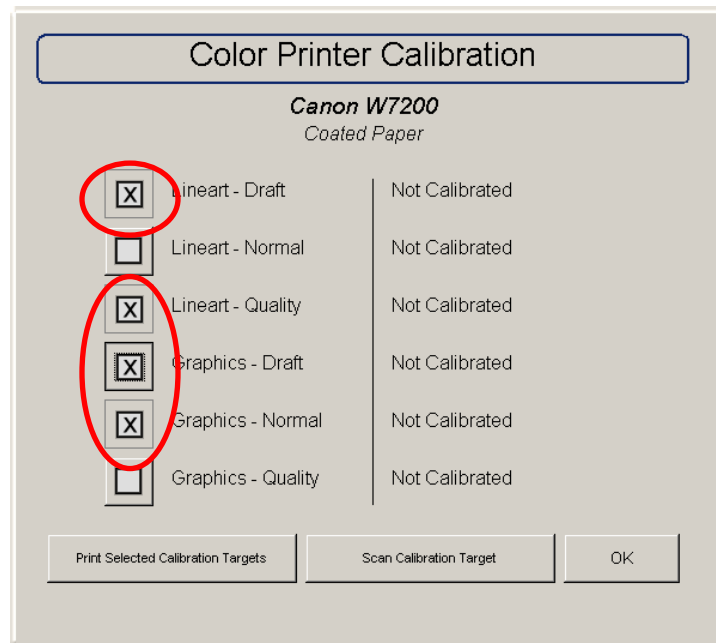
- e) After the target is printed and has time to dry completely, (from inkjet or bubble jet process) trim the target with a scissor to 8.5 x 11 size (remove any excess media) and then press the Scan Calibration Target button.



- f) Insert the target face up in the center of the KIP 600 noting the arrow's direction.
- g) After the scan is completed, the IPS will automatically calibrate the scanner - media – mode. It will place a “check” beside the calibrated mode, set the date it was calibrated and allow function of this mode in color Copy and Scan Modes of the KIP printer.

## How to calibrate the KIP 600 for Color Printer Configuration (For first copy / scan in color mode operation);

1. Specify your color printer. (See 5.1 to 5.4)
2. Select all of the following 4 modes.



3. Perform the above d) to g).
4. When finished all of the modes, turn the KIP 600 off and back on again.

## 6.0 Other Buttons

### 6.1 Service

This button is used to access service technician functions of the IPS. It is password protected to prevent unwanted changes to the KIP printer.

### 6.2 Print This Screen

This button will print the main “?” screen. This include the meter counts, versions, etc. which are printed on the KIP printer. This can be useful for troubleshooting or for record keeping.

## Section 8

# Windows Driver

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# **1.0 Introduction**

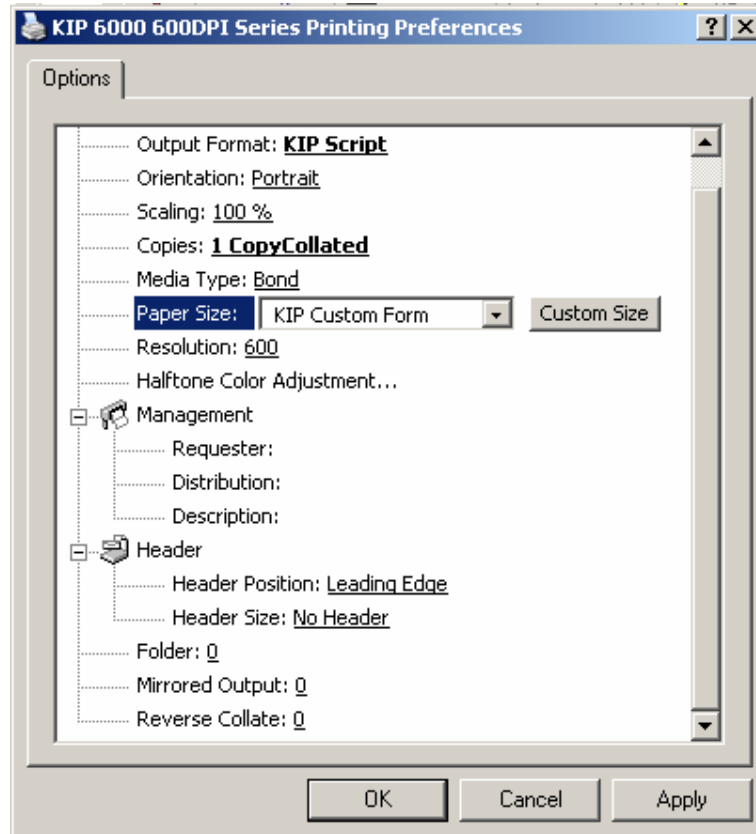
---

## **1.1 Introduction**

The **KIP Unified Windows Printer Driver** (KUWPD) allows windows printing from Microsoft Windows NT4 / 2000 / XP / x64 Operating systems, as well as 2003 Server based applications.

The KIP Unified Windows Printer Driver is available for download from your local KIP website and is also supplied with your KIP 3000 Printer on the software CD.

## 1.2 Option Screen - Overview



Beginning at the top of the layout above, these are the main features on the KUWPD

Name	Feature / Function
Output Format	Selects the type of "language" for driver output
Orientation	Rotation of the page
Scaling	Allows scaling of an image to the page size if not supported in the application.
Copies	Selects the total number of prints
Media Type	Selects the output media type
Paper Size	Selects the page size from standard sizes or create a custom page size.
Resolution	Select the resolution to match the printer DPI
Halftone Color Adjustment	Allows dither pattern change from various colors from the within an application to the printed document.
Management	Allows accounting to be used from windows applications.
Header	Places a text header on the print for quick document identification
Folder	Allows the document to be folded (with optional folder)
Mirrored Output	Mirrors the image on the print
Reverse Collate	In a multi page document, reverse the print order

## 2.0 Function Details

---

### 2.1 Output Format

The KUWPD improves support for many Windows applications by providing dual output printer language capabilities. Selecting the *Output Format* in “Printing Preferences” or “Document Defaults” (NT4), *before* entering an application will select the proper output method.

#### KIP GL Output Format

The first output format the KUWPD is capable of is KIP GL (HPGL2/HP-RTL). CAD applications that may not have a compatible driver available can utilize KIP GL and achieve improved quality. The KIP GL output can be further enhanced by making changes to the Pen Table on the KIP Controller. Features already in the Default Pen Table on the KIP Controller such as Line Width Compensation and RTL Dither allow users to achieve improved quality when using the KIP GL output format.

#### KIP Script Output Format

The user can choose KIP Script (Postscript output) when printing from applications that function best when outputting Postscript data. For example; Adobe Acrobat functions best when using Postscript output, especially on images larger than E-size (Acrobat 6). Other graphics applications including MS-Word, Powerpoint, and Excel also work very well with KIP Script output. The KIP Script data can be smaller in file size and transmits quickly over networks.



#### NOTE

The KIP PDF Powerscript<sup>3</sup> option is required for printing KIP Script data. Please contact your local KIP dealer for details.



#### NOTE

When using the KIP GL output format, the Default.PEN - Pen Table at the KIP Controller will also control some of the printing features. Features such as **Vector Line Dither Pattern, RTL Raster Dither, RTL Density, and Line Width Compensation** are used during conversion for printing. These settings must be configured PRIOR to opening the KIP Unattend print queue.



#### NOTE

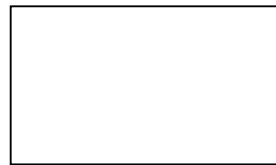
Certain applications work better depending on the *Output Format*.

- Applications using heavy raster or photographic data work best with KIP Script type output. Examples: Adobe Acrobat products, Adobe Illustrator Products, Adobe Photoshop Products and Corel Draw based products.
- Microsoft applications generally work well with either output format. Examples: Microsoft Word, Excel, Project.

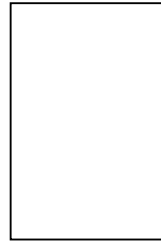
## 2.2 Orientation

There are two types or Orientation in the KIP driver: Landscape and Portrait.

Examples:



Landscape



Portrait

Selection of the orientation should take into account the design or layout from within the application. If an incorrect orientation is selected the page size can be “rotated” incorrectly and image may be lost in the final printed output.

## 2.3 Scaling

Many Windows applications have their own scaling capabilities built into the "print menu". For example: Spicer and MS PowerPoint allow for some form of “Scale to Page” type feature. Some Windows applications such as MS Word and MS Excel do not allow for scaling to engineering and architectural wide format paper sizes. The “Scaling” feature in KUWPD allows the user to set a percentage to enlarge the document to fit the paper size desired when scaling is not included in the application.

Example:

No scale used



scale applied to enlarge image



## 2.4 Copies

Select the total number of copies you wish to print. The range is from 1 to 999.

## 2.5 Media Type

The KIP printer may have more than one media type installed. These types may include bond, vellum and film. This feature allows printing onto a media type of your choice of an installed kind.

## 2.6 Paper Size

Select the output page size. Please note that the KIP printer may have a roll installed that may be larger than the selection.



This feature is very important in wide format printing from CAD applications and MS Excel. This is a feature that is required in CAD applications where the image size may vary from one image to the next such as: 36" x 60" for the first document then 24" x 80" for the next. The Custom Size feature allows the users much simpler access for several capabilities:

1. Choose any paper size "on-the-fly" without adding new paper sizes to the operating system (Printers and Faxes→Server Properties→Forms).
2. Choose different and non-standard paper sizes for each and every document.
3. Choose very long paper sizes.
4. It is not necessary to exactly match the document length to the output length; the users can intentionally choose a longer length for the media size. For example, if the image is meant to fit on 36" wide media, but the user isn't sure about the length of the media required, the user can set a very long length (up to 200 feet) and the "white" space (extra paper) at the end of the document will automatically be removed. This prevents any waste of media without an image (KIP GL)

## 2.7 Resolution

Output resolution is automatically determined when installing the Windows driver.



### NOTE

The KIP 3000 is a 600 x 600 DPI device.

## 2.8 Halftone Color Adjustment

The KIP driver can be adjusted to allow colors from within your application to have different variance of shading. This provides the ability to increase or decrease the level of overall contrast of the grey tones on final output. Adjust the level as required to satisfy your final product requirements.

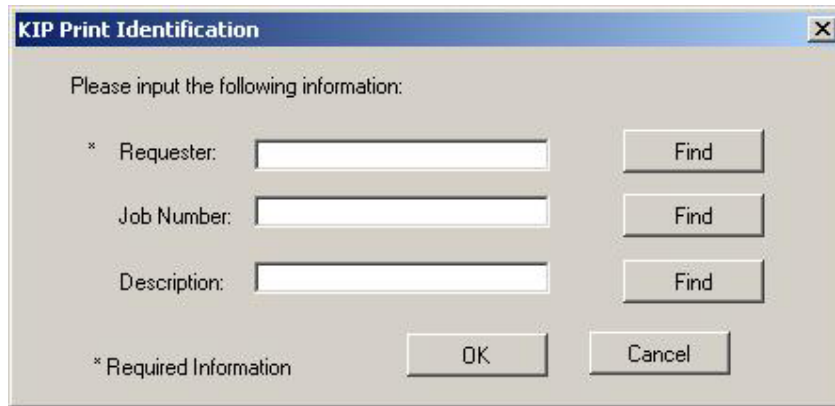
## 2.9 Management

The KIP 3000 has the ability to account for each print produced. This allows for job/department costing. Three fields exist in the driver to allow the user to include this information.

These fields are:

- a) Requester
- b) Job Number
- c) Description

Unified Accounting – The Windows Driver points to a central location Ex. A KIP 3000 which has a centralized list and rules for accounting. For information on how to set up unified Accounting please see the Request or PrintNet sections.



**KIP Print Identification**

Please input the following information:

\* Requester:

Job Number:

Description:

\* Required Information


The Requester, Job Number and Description fields under “Printing Preferences” or “Document Defaults (NT4)” can be set to use operating system environment variables.

Examples: The *Requester* field can be set to %Username%

The Description field can be set to %Computename%

## 2.10 Header

To easily recognize printed documents, text can be placed on the top and bottom of the print. The text header includes all the “Management” information as well as the file name.



Text here

Text here

## 2.11 Folder

If an optional folding device is installed onto the printer, select fold to allow the printer to determine which fold table to apply to the document. The patterns must be set by a certified service technician in the KIP 3000 IPS.

## 2.12 Mirrored Output

The image can be mirrored as required by the user. This may be needed on translucent media or for other specialty applications.

## 2.13 Reverse Collate

If the document to be printed contains more than one page, collation may be important. To allow the pages to be reversed printed (last page first), select this function. Please note that the application must also support multiple page printing.

## 2.14 Stamps

The KIP Windows driver will read the list of available stamps that are configured on the KIP IPS. It is not possible to modify these stamps using the driver. For information on configuring stamps, please see the KIP Request documentation.

## 3.0 Installation

---

### 3.1 Prerequisites

#### Requirements at the Network Server or User Workstations

- a) The **KIP Unified Windows Printer Driver (KUWPD)** allows windows printing from Microsoft Windows NT4 / 2000 / XP / x64 Operating systems as well as 2003 Server based applications. (Windows 9x is not supported)
- b) Please ensure that your applications are as up-to-date as possible, in terms of version, available service packs, and hot fixes (this also includes your OS).
  - a. Windows NT Service Pack 6 is Required
- c) If you are updating your system from a previous installation, you will likely need the assistance of and/or permission from a Network Administrator to remove the previous KIP Driver. Any users connected to the previous shared version of the KIP Printer Driver on the Server or Workstation will need to remove that printer object and connect to the newly shared driver that will be installed.

**KIP Unified Windows Printer Driver (KUWPD)** offers HPGL2/HP-RTL and Postscript Language printing to KIP digital printers from Microsoft Windows NT4 / 2000 / XP / 2003 based applications (Windows 9x platforms not supported). The driver can be downloaded from your local KIP website and is included on your KIP 3000 Software CD. This driver may also be obtained from KIP PrintNET. Please see the PrintNET documentation for more information.

**KUWPD** contains:

- Printer driver files
- An installation utility (**Printman.exe**)
- A dedicated printer port monitor (KIP0) for Microsoft operating systems as described in the following pages.
- Once the KUWPD has been downloaded and uncompressed, the files can be placed directly on the workstation or server to which it will be installed or on a USB drive or CD. See **Appendix A** for details on the files and file structure.

**For new installations on a Workstation or Server see:  
“Installation Process”**

**For updating from a previous installation of a KIP Printer see:  
“Upgrade Installation”**

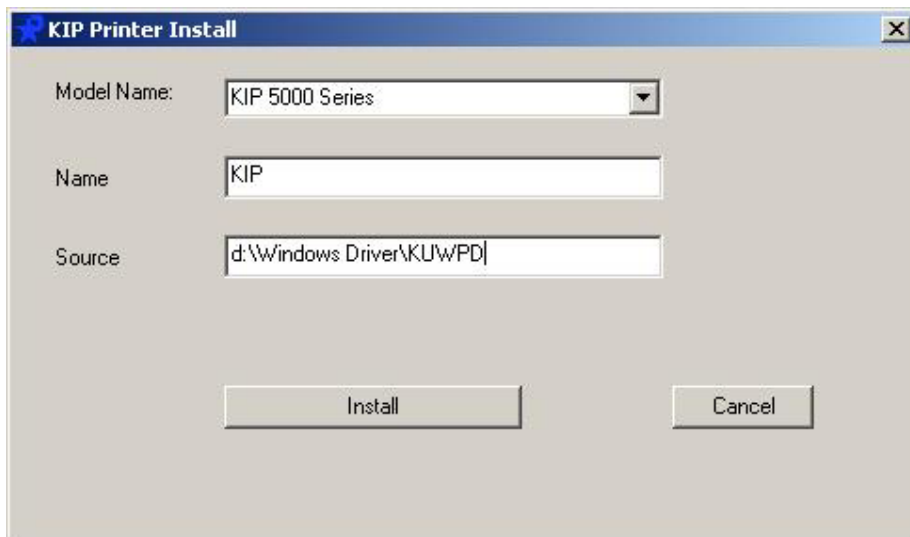
## 3.2 Installation Process - Automatic

KIP Unified Windows Printer Driver (KUWPD) can be installed on Microsoft Windows NT4, 2000, XP, x64, 2003 platforms (Windows 9x platforms not supported) by using the provided **printman.exe** utility or by manually adding a port monitor (monitor.inf) and printer driver (plotter.inf). In both cases, Local Administrative rights are necessary.

### **Printman Utility Installation Method:**

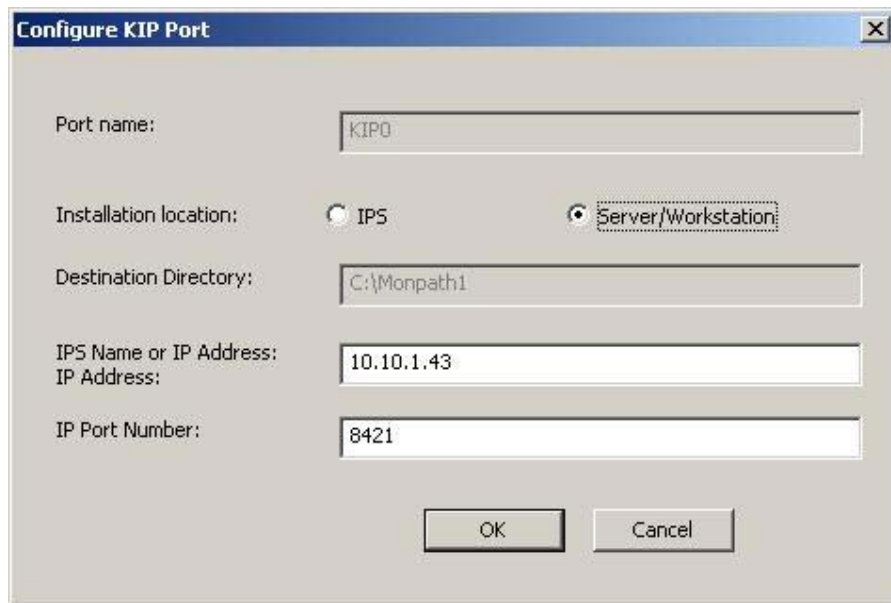
Once the KUWPD has been downloaded and unzipped, the files can be placed directly onto the workstation or server where it will be installed or, onto a USB drive or CD. See **Appendix A** for more information on the files and structure.

- a) Execute **printman.exe** from a Microsoft Windows NT4, 2000, XP, x64 or 2003 operating system. An installation window is displayed:



- b) Select the appropriate KIP Printer from the *Model Name* drop down selection (kip 3000). Do not change the *Name* and *Source Fields*.
- c) Select *Install*. KIP printer port monitor is now installed.

The following screen will appear.

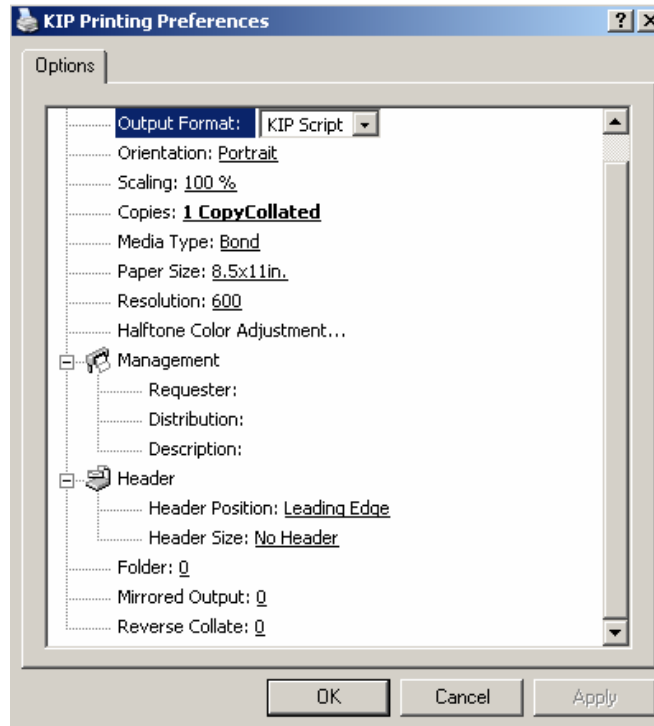


The image shows a Windows-style dialog box titled "Configure KIP Port". It contains several input fields and radio buttons. The "Port name:" field is set to "KIP0". The "Installation location:" has two radio buttons: "IPS" (unselected) and "Server/Workstation" (selected). The "Destination Directory:" field is set to "C:\Monpath1". The "IPS Name or IP Address:" field is set to "10.10.1.43". The "IP Port Number:" field is set to "8421". At the bottom are "OK" and "Cancel" buttons.

Port name:	KIP0
Installation location:	<input type="radio"/> IPS <input checked="" type="radio"/> Server/Workstation
Destination Directory:	C:\Monpath1
IPS Name or IP Address:	10.10.1.43
IP Address:	
IP Port Number:	8421

- e) Do not change *Port Name*.
- f) Choose *Server/Workstation* from *Installation Location*.
- g) Do not change *Destination Directory*.
- h) Provide the IP address **OR** hostname of your KIP printer for *IPS Name or IP Address*. It is important to add EITHER the hostname OR the IP address. Do not add both. This is the destination address.
- i) Do not change *IP Port Number*.
- j) Click *OK*. The selected KIP Printer Driver is added to the system and assigned to the Printer Port monitor (KIP0).
- k) The installed printer can now be accessed from the Microsoft Printer Control Panel. If printer is not seen, press F5 to refresh the printer list

Right-Click on “KIP Printer” and select *Printing Preferences*. User Interface is displayed.  
For Microsoft Windows NT4, select *Document Defaults*.



- l) The following settings will determine the initial defaults for the printer driver. These defaults are acquired from client workstations connecting to the shared printer driver. Please note that some workstations may not be able to alter the Printer Preferences unless allowed by the network login.
- m) Select desired *Output Format\** and make your selections for default paper size, orientation, *Management* functions\*, and Header information.
- n) Click *OK* when finished.
- o) Share the printer to other network clients if required.

### 3.3 Installation Process - Manual

The **printman.exe** utility is designed to automate the installation of the KIP Port Monitor (KIP0) and the KIP Unified Windows Printer Driver (KUWPD). It is possible to install both components manually. Manual installation techniques may be necessary to satisfy IT and/or corporate requirements.

- a) Depending on your operating system, locate the appropriate folder that contains the monitor.inf for your system platform.\*

KUWPD \ WINNT4 = Microsoft Windows NT 4 Workstation / Server

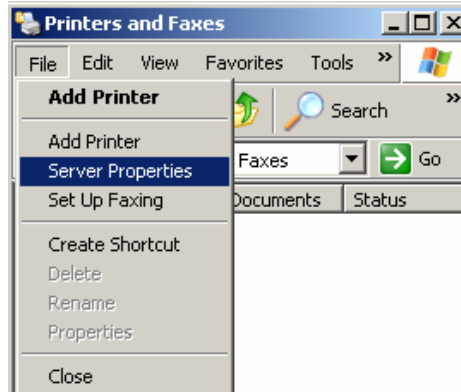
KUWPD \ WIN2000 = Microsoft Windows 2000 Workstation / Server

KUWPD \ WINXP = Microsoft Windows XP, Microsoft Windows 2003 Server

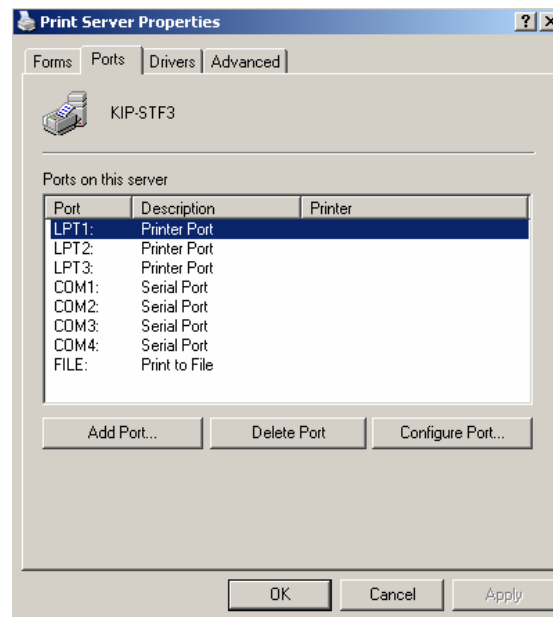
KUWPD \ AMD64 = Microsoft Windows XP 64-bit Edition

- \* Alternatively, you can use the Microsoft Standard TCP/IP port monitor (configured for LPR/LPD), however some functionality and transport speed will be lost. See *Printing Hints* section in Appendix.

- b) From the Printers control panel, select *File, Server Properties*.



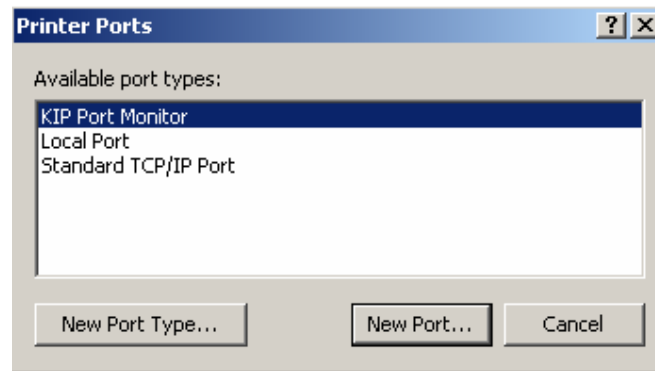
- c) Print Server Properties is displayed. Select *Ports* from available tabbed headings.



- d) Select *Add Port*. Printer Ports dialog is displayed. Select *New Port Type*.

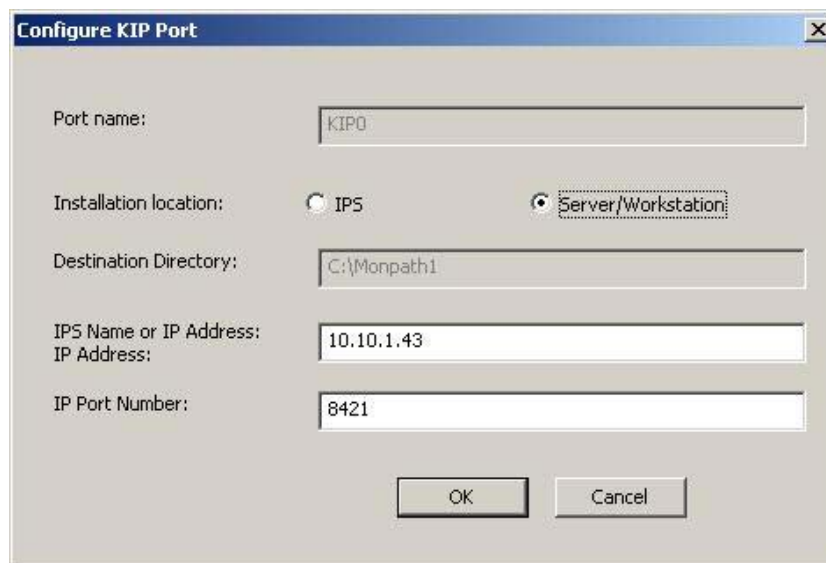


- e) Browse to the appropriate operating system folder from the KUWPD distribution, and select monitor.inf. *Select OK. KIP Port Monitor* is added to Available Port Types.



- f) Select *KIP Port Monitor* and click *New Port*.

- g) Configure KIP Port:



- f) Do not change *Port Name* unless required\*  
\* For multiple KIP printers, create an additional KIP Port per printer named KIP1, KIP2, KIP3...
- g) Choose *Server/Workstation* from *Installation Location*
- h) Do not change *Destination Directory*
- i) Provide the IP address **OR** hostname of your KIP printer for *IPS Name or IP Address*. It is important to add EITHER the hostname OR the IP address. Do not add both. This is the destination address
- j) Do not change *IP Port Number*
- k) Click *OK*. Port Monitor is now configured. Exit Print Server Properties.
- l) Continue printer installation by using Add-Printer-Wizard.

### 3.4 LPR / LPD Port

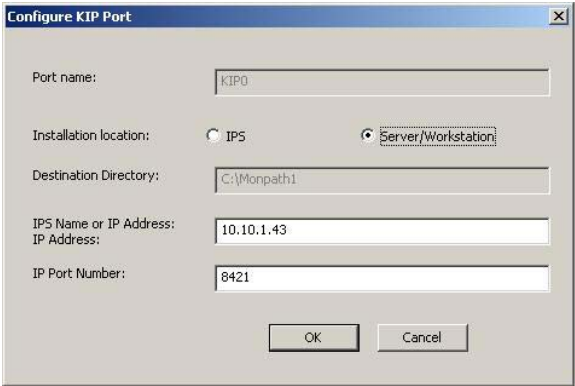
The Microsoft provided TCP/IP Port Monitor can be used as an LPR/LPD type of port instead of the KIP0 port. During configuration of TCP/IP Port Monitor, LPR must be used, with *LPR Byte Counting* enabled. LPR/LPD implementation requires a *Queue Name* to be defined. Use KIP as the queue name, in all uppercase lettering. This is the name of the printer object on the KIP IPS by default.

### 3.5 Upgrade Process

**Obtaining the Windows Driver Information if the KIP IPS replaces another KIP system**

For your current Windows Driver Setup, please obtain the following information prior to removing or uninstalling any component.

Obtain your current Windows Driver Configuration. In your Windows Driver, go to **Properties, Ports** and locate your information for the KIP0 port. Complete information within the table provided.

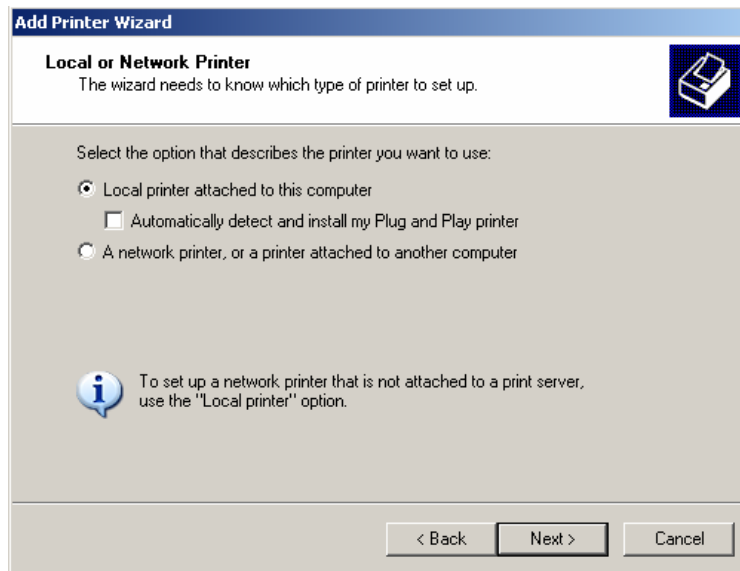


Port Name	
Port Location	
Destination Directory	
Controller Name / IP Address	
IP Port Number	

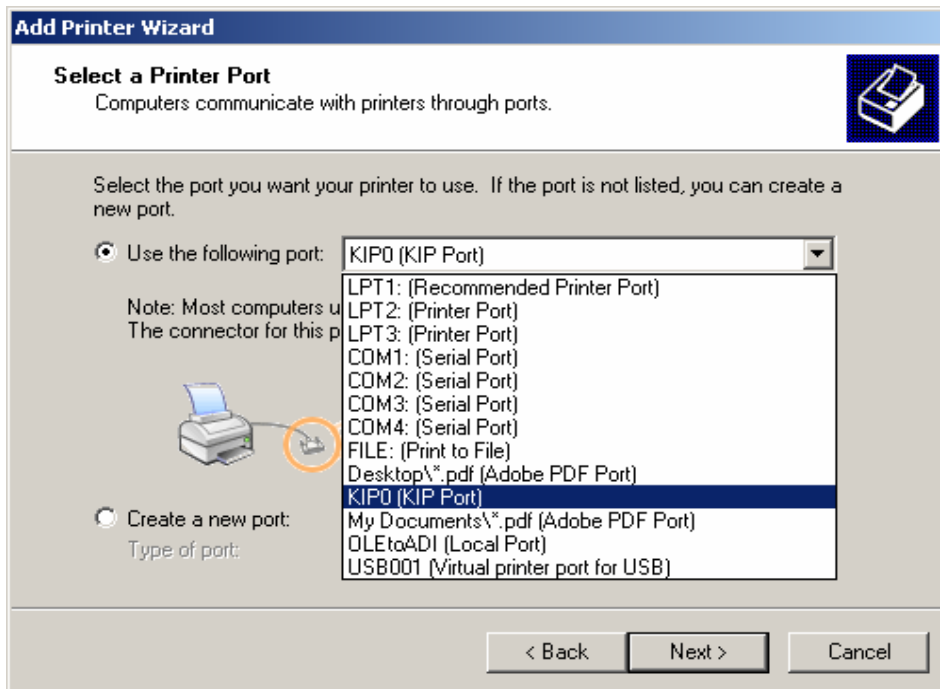
KIP Unified Windows Printer Driver (KUWPD) can be upgraded from previous versions of KIP Windows Printer Drivers on Microsoft Windows NT4, 2000, XP, x64, and 2003 platforms by manually adding the new printer driver (plotter.inf) to an existing KIP0 port. Local Administrative rights are necessary.

- a) Delete existing KIP printer driver object(s) from the Control Panel - Printers menu at the workstation(s) / server(s).
- b) Once the KUWPD has been downloaded and unzipped, the files can be placed directly onto the workstation or server where it will be installed or, on a USB drive or CD. See **Appendix A** for more information on the files and structure.

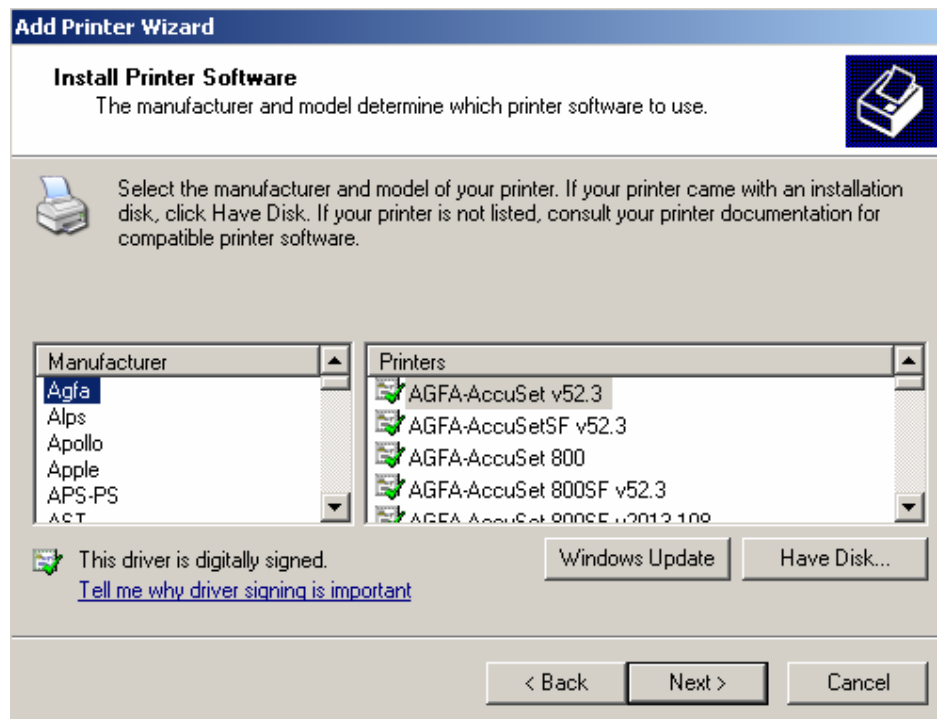
- c) From the Control Panel - Printers menu select "Add Printer". When the Printer Wizard dialog is displayed\* select *Local printer attached to this computer*. Click *Next*
- \* Microsoft Windows NT4 screens will vary slightly from those shown



- d) Select *Using the Following Port*, and assign *KIP0*, or use *KIP1*, *KIP2* depending on the installation. Select *Next*.



- e) Install Printer Software dialog is displayed. Click *Have Disk*.



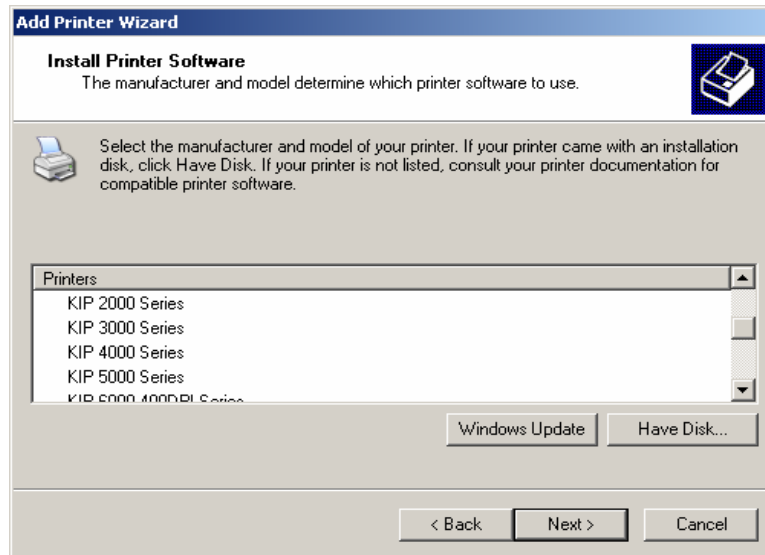
- f) Depending on your operating system, locate the appropriate folder that contains the `plotter.inf` for your system platform.

KUWPD / WINNT4 = Microsoft Windows NT 4 Workstation / Server

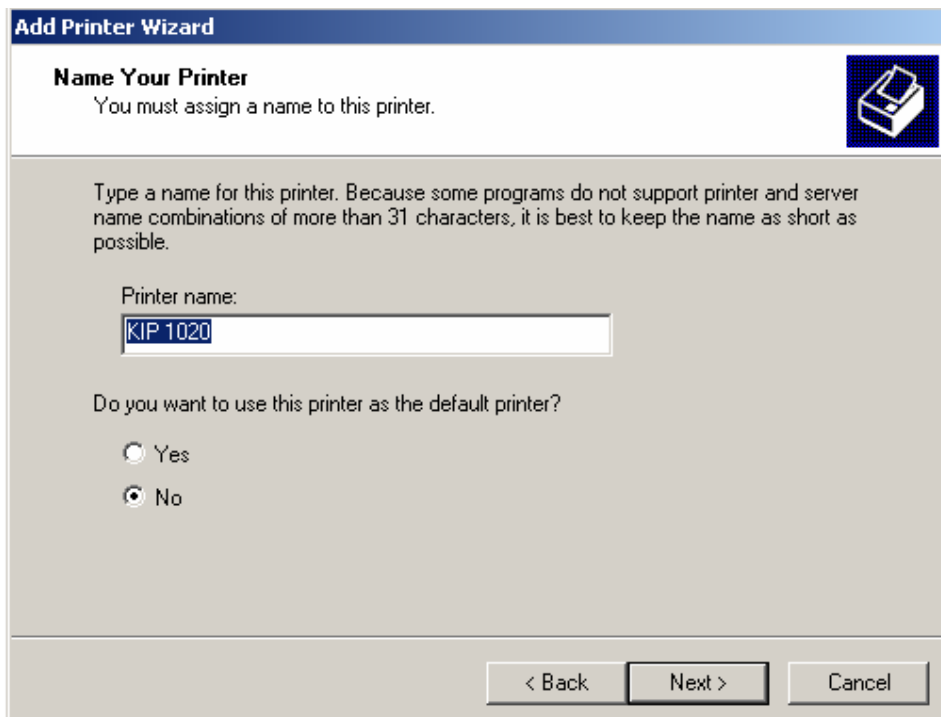
KUWPD / WIN2000 = Microsoft Windows 2000 Workstation / Server

KUWPD / WINXP = Microsoft Windows XP, x64, Microsoft Windows 2003 Server

- g) Select the appropriate KIP Printer from the list displayed and click *Next*.

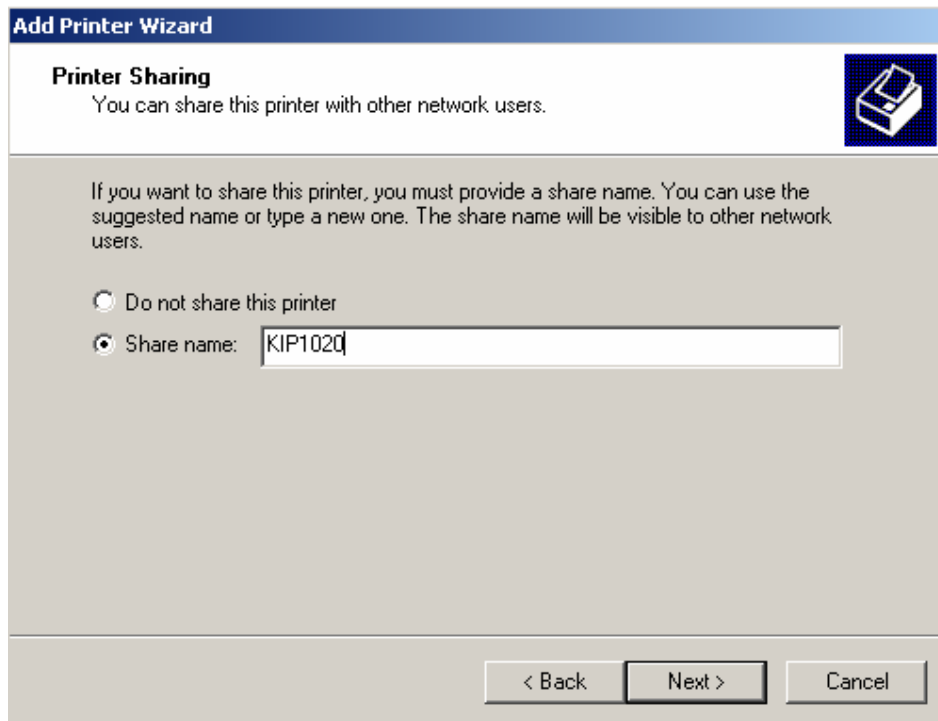


- h) Provide a Printer Name when prompted. Select *Next*.



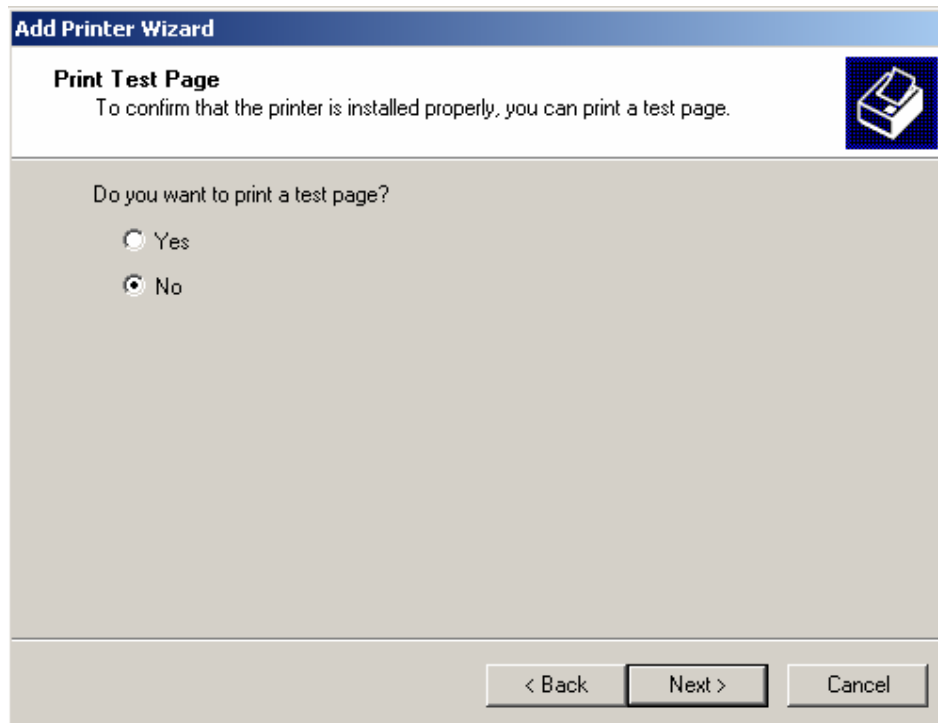
- i) Assign a shared name (if applicable)\*. Select *Next*

\* If replacing a previously shared driver, it is possible to use the same share name.



The screenshot shows the 'Add Printer Wizard' window at the 'Printer Sharing' step. The title bar reads 'Add Printer Wizard'. The main heading is 'Printer Sharing' with a subtext: 'You can share this printer with other network users.' To the right is a printer icon. Below this, a message states: 'If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users.' There are two radio button options: 'Do not share this printer' (unselected) and 'Share name:' (selected). The 'Share name:' option has a text input field containing 'KIP1020'. At the bottom are three buttons: '< Back', 'Next >', and 'Cancel'.

- j) Determine if you would like to print a Test Page when prompted. Select *Next*.

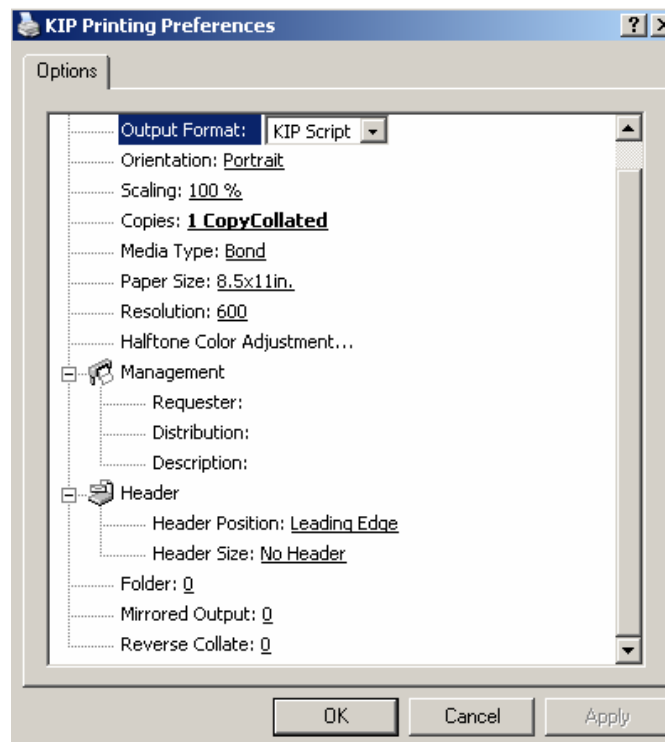


The screenshot shows the 'Add Printer Wizard' window at the 'Print Test Page' step. The title bar reads 'Add Printer Wizard'. The main heading is 'Print Test Page' with a subtext: 'To confirm that the printer is installed properly, you can print a test page.' To the right is a printer icon. Below this, a message asks: 'Do you want to print a test page?'. There are two radio button options: 'Yes' (unselected) and 'No' (selected). At the bottom are three buttons: '< Back', 'Next >', and 'Cancel'.

- k) Completing the Add Printer Wizard dialog is displayed. Click *Finish*. Printer Driver is added to system.



- l) Installed printer can now be accessed from the Microsoft Printer Control Panel\*  
\* If printer is not seen, press F5 to refresh the printer list
- m) Right-Click KIP printer and select *Printing Preferences*\*. User Interface is displayed.  
\* For Microsoft Windows NT4, select *Document Defaults*



- p) The following settings will determine the initial defaults for the printer driver. These defaults are acquired from client workstations connecting to the shared printer driver.

Please note that some workstations may not be able to alter the Printer Preferences unless allowed by the network login.

- n) Select the desired *Output Format*\* and make your selections for default paper size, orientation, Management functions\*, and Header information.

\* See *Printing Hints* section later in this document

- o) Click *OK* when finished.



## NOTE

If you wish to add additional KIP Printers, use the Add-Printer-Wizard, and select **KIP (c)** from the list of manufactures.



# 4.0 Appendix

---

## 4.1 File Structure Overview

When the printer driver is unzipped and copied to the Hard Disk of the system where it will be installed, the directory and file structure are as follows:

**C:\KUWPD**  
**C:\KUWPD\AMD64**  
**C:\KUWPD\WINNT4**  
**C:\KUWPD\WIN2000**  
**C:\KUWPD\WINXP**

### KUWPD

- Printman.exe - Installation utility for Microsoft Windows NT4 / 2000 / XP / x64 / 2003.  
Provides a GUI for Printer Port Monitor and Printer Driver installation.
- Mfc71.dll - Microsoft DLL needed to run Printman
- Msvcr71.dll - Microsoft DLL needed to run Printman

### AMD64

- Copy64.exe - utility to properly place x64 files in support path structure
- Microsoft.VC80.CRT.manifest – Microsoft compiler manifest file
- msvcr80.dll - Microsoft DLL needed.

### WINNT4

- Kawntppm.dll- Printer Port Monitor for Microsoft Windows NT4 Workstation / Server
- Kipgs24.ppd - Postscript Printer Definition File
- Kipgs400.ppd- Postscript Printer Definition File
- Kipgs600.ppd- Postscript Printer Definition File
- Kipgs1020.ppd- Postscript Printer Definition File
- Kuwntpd.dll- Printer Driver DLL for Microsoft Windows NT4 Workstation / Server
- Kuwntpdui.dll- Printer Driver User Interface for Microsoft Windows NT4 Workstation / Server
- Monitor.inf- Printer Port Monitor installation file Microsoft Windows NT 4 Workstation / Server
- Plotter.inf- Printer Driver installation file Microsoft Windows NT4 Workstation / Server

### WIN2000

- Kaw2kppm.dll- Printer Port Monitor for Microsoft Windows 2000
- Kipgs24.ppd- Postscript Printer Definition File
- Kipgs400.ppd- Postscript Printer Definition File
- Kipgs600.ppd- Postscript Printer Definition File
- Kipgs1020.ppd- Postscript Printer Definition File
- Kuwxppd.dll- Printer Driver DLL for Microsoft Windows 2000 / XP / 2003
- Kuwxppui.dll- Printer Driver User Interface for Microsoft Windows 2000 / XP / 2003
- Monitor.inf- Printer Port Monitor installation file for Microsoft Windows 2000
- Plotter.inf- Printer Driver installation file Microsoft Windows 2000

### WINXP

- Kuwxppm.dll- Printer Port Monitor for Microsoft Windows 2000 / XP / x64 / 2003
- Kipgs24.ppd- Postscript Printer Definition File
- Kipgs400.ppd- Postscript Printer Definition File
- Kipgs600.ppd- Postscript Printer Definition File
- Kipgs1020.ppd- Postscript Printer Definition File
- Kuwxppd.dll- Printer Driver DLL for Microsoft Windows 2000 / XP / x64/ 2003
- Kuwxppui.dll- Printer Driver User Interface for Microsoft Windows 2000 / XP / x64
- Monitor.inf- Printer Port Monitor installation file for Microsoft Windows XP / x64 2003
- Plotter.inf- Printer Driver installation file Microsoft Windows XP / x64 / 2003

## 4.2 Printing Hints

- **Issue:** Adobe Acrobat 6.X products, when printing with KIP GL output language and large size (E-Size or larger) documents has potential to miss or clip off data prematurely.  
**Solution:** Adobe Acrobat 7.X products correct this issue. Acrobat 6.X requires the use of KIP Script output to solve this issue (choose KIP Script in the drivers **Printing Preferences** prior to opening Acrobat 6)
- **Issue:** Printing from Adobe products such as Acrobat Reader requires Postscript output.  
**Solution:** Default the “Printing Preferences” of the KIP driver to KIP Script prior to opening the Adobe application. Printing of KIPScript data also requires the Powerscript3 option on the KIP Controller.
- **Issue:** The **output format** for driver **MUST** be chosen before entering an application to ensure proper output format.  
**Solution:** Ensure **output format** is set in Printing Preferences before launching an application.
- **Issue:** Printing from AutoCAD products with large and/or complex amounts of embedded raster objects will cause a very large output file / spool file size.  
**Solution:** It is suggested to use dedicated KIP ADI/HDI for complex raster printing from AutoCAD products.

## Section 9

# KIP AutoCAD Driver

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# 1.0 Overview and Features

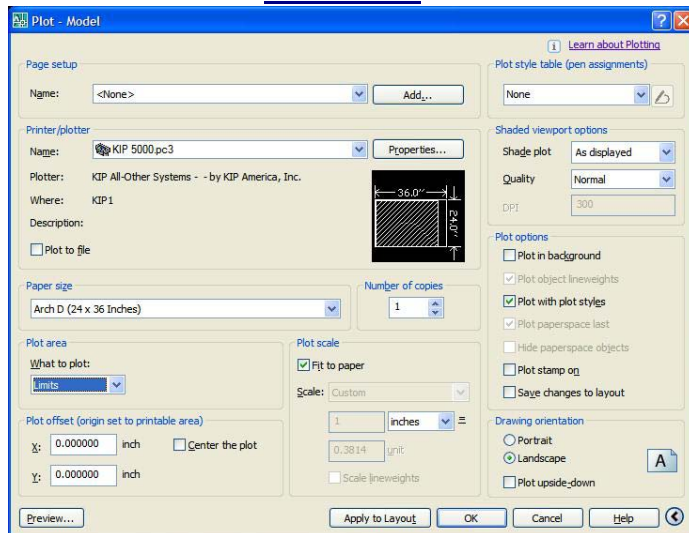
The KIP AutoCAD HDI has been designed to quickly and effectively print to the KIP printer directly from the AutoCAD application when using the Microsoft Windows operating system.

The KIP driver is supported with these versions of AutoCAD from AutoDesk:

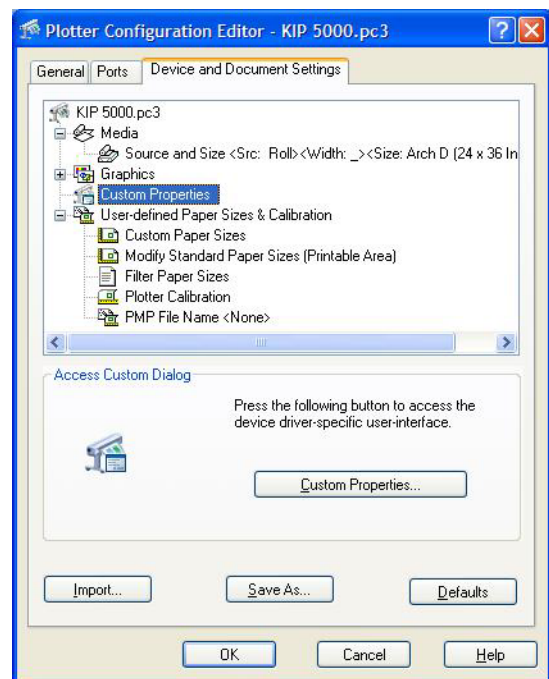
2004 / 2005 / 2006 / 2007

The following two screens are general to AutoCAD and are not detailed within this User Guide. They select the print to device, media size, pen configurations, and shading to list a few of their functions. Please refer to the AutoCAD User Guides for more details on these screens features and functions.

Plot Screen

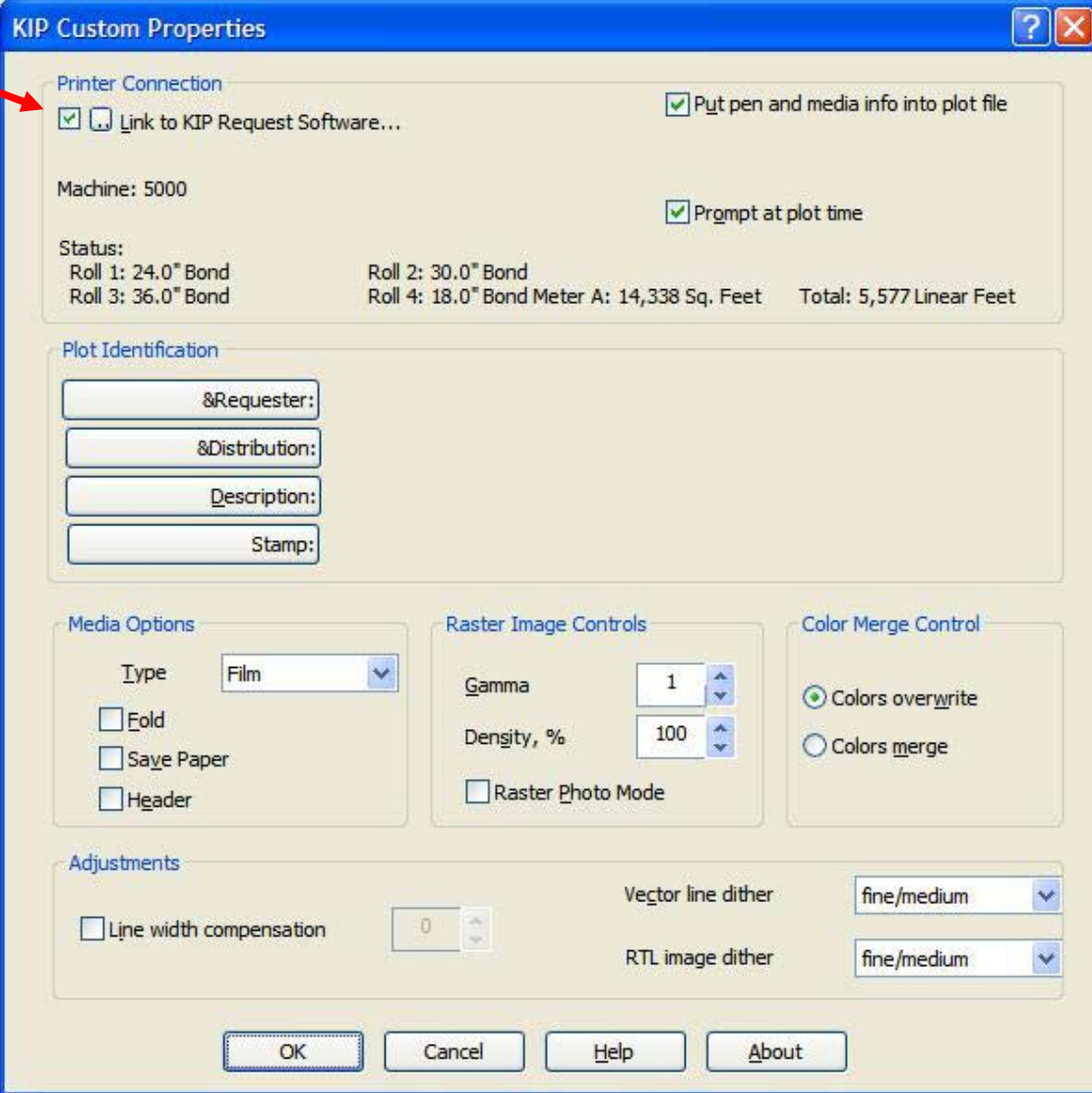


Plotter Configuration



Advanced features and functionality of this driver can work in tandem with **KIP Request** software for added power and flexibility, or as a stand-alone entity. Features when linked to KIP Request include stamping, folding, headers, advanced raster image controls, media type selections, real time printer status and job accounting all from within the AutoCAD application.

Within the “Plotter Configuration Screen” noted in the previous page is “Custom Properties”, please select *Link to KIP Request Software...*



The screenshot shows the "KIP Custom Properties" dialog box. A red arrow points to the checkbox labeled "Link to KIP Request Software..." under the "Printer Connection" section. Other options in this section include "Put pen and media info into plot file" (checked) and "Prompt at plot time" (checked). The "Machine" is set to "5000". The "Status" section lists roll information: Roll 1: 24.0" Bond, Roll 2: 30.0" Bond, Roll 3: 36.0" Bond, Roll 4: 18.0" Bond, Meter A: 14,338 Sq. Feet, and Total: 5,577 Linear Feet. The "Plot Identification" section contains input fields for "&Requester:", "&Distribution:", "Description:", and "Stamp:". The "Media Options" section has a "Type" dropdown set to "Film" and checkboxes for "Fold", "Save Paper", and "Header". The "Raster Image Controls" section includes "Gamma" (1), "Density, %" (100), and a "Raster Photo Mode" checkbox. The "Color Merge Control" section has radio buttons for "Colors overw~~rite~~" (selected) and "Colors m~~erge~~". The "Adjustments" section includes a "Line width compensation" checkbox and a spinner set to 0, as well as "Vector line dither" and "RTL image dither" dropdowns both set to "fine/medium". At the bottom are "OK", "Cancel", "Help", and "About" buttons.

## 2.0 Connection

---

### 2.1 Options

There are two methods to print from the KIP HDI driver to the KIP 3000:

1) Windows Printer Port

The Windows driver must be installed on the PC. This method spools images directly to the printer via the printer port. This is a very simple connection method with all available features and functions of the KIP HDI driver. This is the preferred method.

2) Plot to File

The output file must be manually submitted to the printer using KIP Request software. This method is not detailed in this guide.

### 2.2 KIP Request Link – Advanced Features

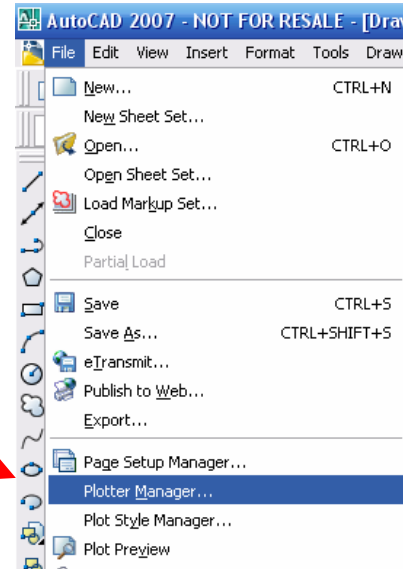
Users have the flexibility of linking to KIP Request to access advanced functions and features.

Allowing the KIP HDI driver to interface with KIP Request provides the most versatile and powerful printing solutions. KIP Request is a document submission tool that allows for complete and comprehensive control over printing / plotting.

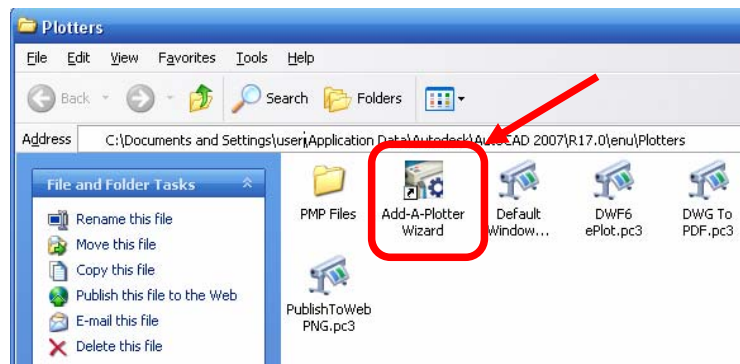
This software can operate on several remote workstations simultaneously. With KIP Request, users have the ability to obtain real-time printer/plotter status, password protect these submissions based on user and job information, apply custom made stamps, activate folding devices and modify job descriptions. The KIP HDI driver was designed to take advantage of, and dynamically link to, KIP Request, bringing many of these key features to the AutoCAD interface. It is recommended that the KIP HDI driver be configured in this manner. If you opt not to link with KIP Request, certain features of the KIP HDI driver will not be available to you (i.e. real-time printer status, password protected pull-down menus, on-the-fly stamping, and automated spooling). This document assumes that KIP Request is utilized and installed properly. Installation instructions and further documentation for KIP Request are found in the KIP Request Section of this guide.

# 3.0 Installation

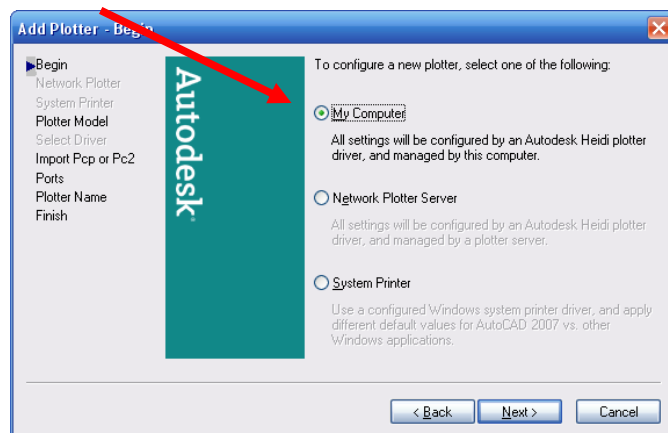
- 1) Within AutoCAD, click on *File*, and then select *Plotter Manager*.



- 2) Under *Plotter Manager* double Click the *Add-A-Plotter Wizard* Icon.



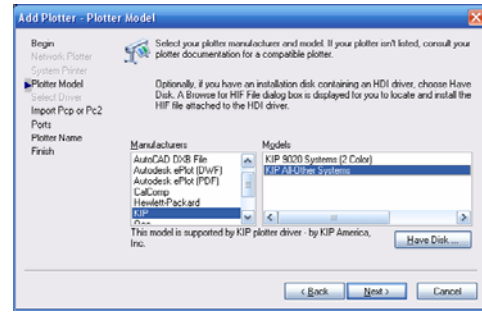
- 3) Choose **My Computer** to install the driver to your local computer.





4) Identify your plotter / printer model.

- a) If KIP is in the list, simply select KIP from your list of manufacturers and click “Next.”
- b) If KIP is not in the list, click the “Have Disk” button and you will be able to browse for the plotter driver from your **KIP Software CD**. The file you are searching for is located in the Drivers\KIP HDI folder and should appear as KIPx.hif.



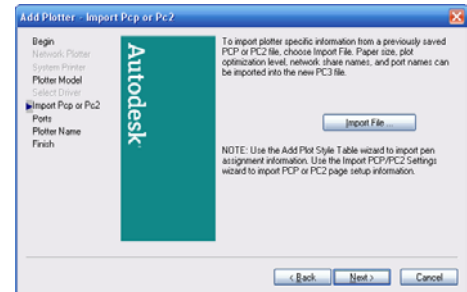
### Note

KIP6.hif is the driver file for AutoCAD 2000 – No longer supported  
KIP7.hif is the driver file for AutoCAD 2000i and AutoCAD 2002 -No longer supported  
KIP8.hif is the driver file for AutoCAD 2004, 2005 and 2006.  
KIP9.hif is the driver file for AutoCAD 2007

5) Once you have selected this file KIP will appear in the list. Select it from your list of manufacturers and click “Next.”

6) The next screen is the PCP and PC2 importation screen. This screen allows users of previous AutoCAD versions to import their PCP and PC2 files to the AutoCAD 2000 family PC3 file format.

If the user does not wish to migrate or does not have any PCP or PC2 files, click the “Next” button and proceed with the installation.

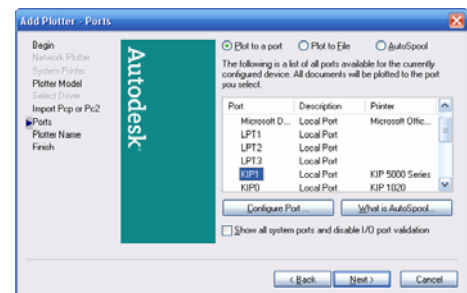


7) Output Port Selection: select **KIP0**, which is the Port created at the time the KIP Windows driver is installed.



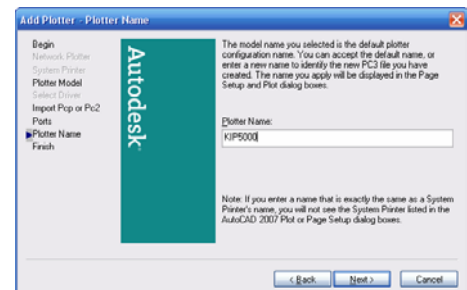
### Note

The KIP windows driver should be installed prior to the AutoCAD driver to use this port. If you choose not to use this method, select *Plot to File*.



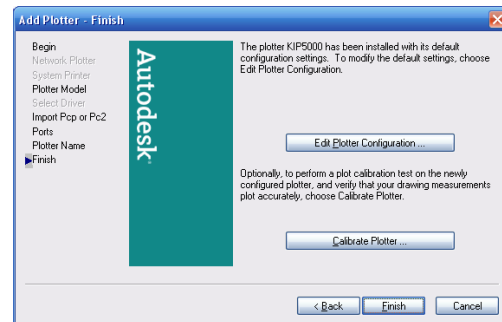
8) Specifying the printer's name. Since all the KIP printers use the same driver, the user could set up a name for each KIP device. We recommend you use the nomenclature of your KIP machine to identify the printer's name.

Example: KIP 3000



9) To complete the installation, click the *Finish* button. Printer configuration will be done later and there is no need to “Calibrate Plotter” as the KIP printer was calibrated during installation by the technician.

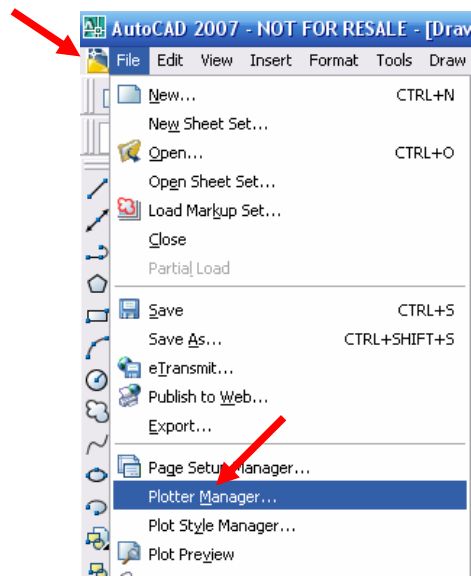
10) Once the installation is complete, please note the creation of the KIP 3000.pc3 file in the ACAD/Plotters folder.



# 4.0 Configuration

Click on *File*, and then *Plotter Manager*

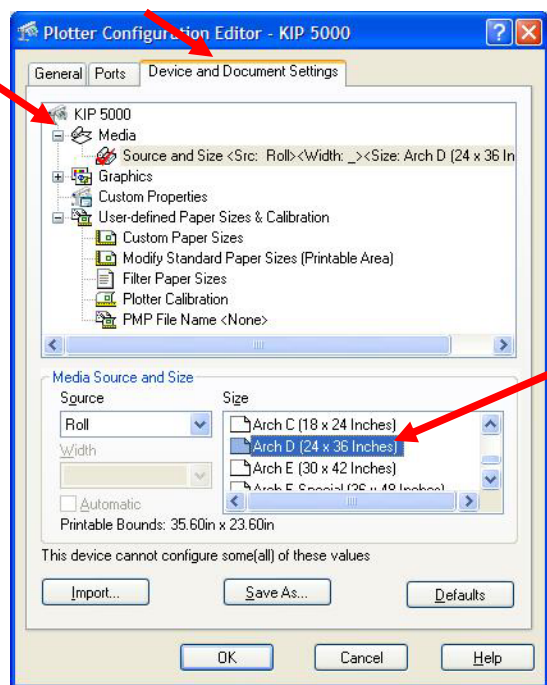
- 1) Double-click on the .PC3 file of the KIP printer to open the Plotter Configuration Editor.



Navigate to the “Device and Document Settings” tab

## 4.1 Media

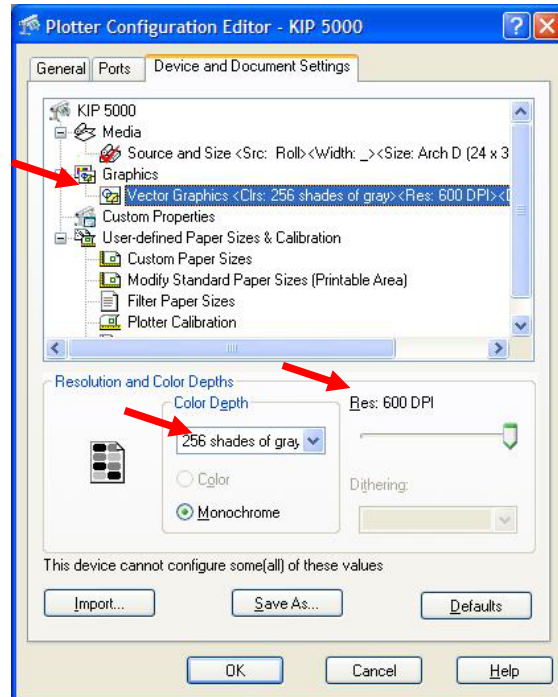
- 1) Click the “+” sign next to “Media”. This will open up the Media Options and allows selection of the Media Source (which is “Roll”) and Media Size.
- 2) Select your media size to suit your image.



## 4.2 Graphics

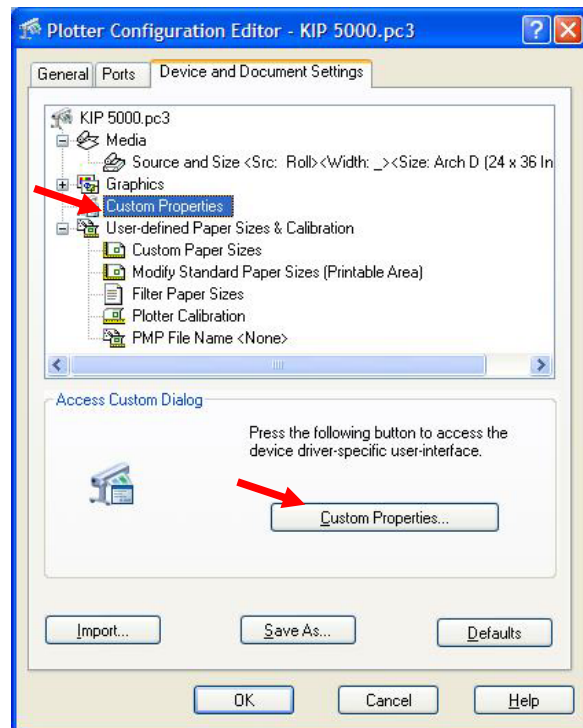
- 1) Click the “+” sign next to “Graphics”.  
This will open up the Graphics options and allows the selection of the Color Depth (in this case “256 shades of gray” ) and the resolution.

The KIP 3000 has 600DPI resolution.

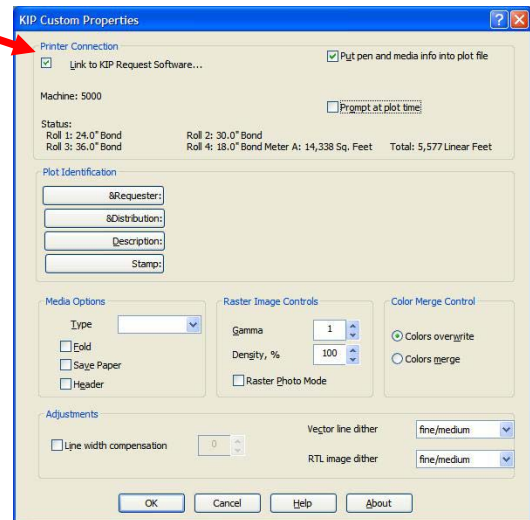
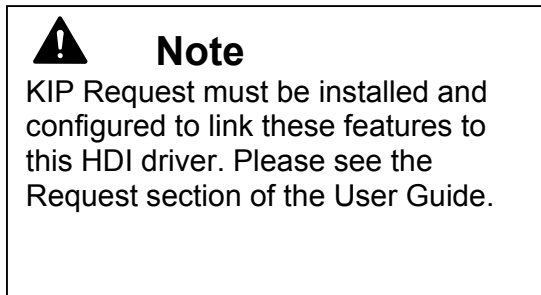


## 4.3 Custom Properties

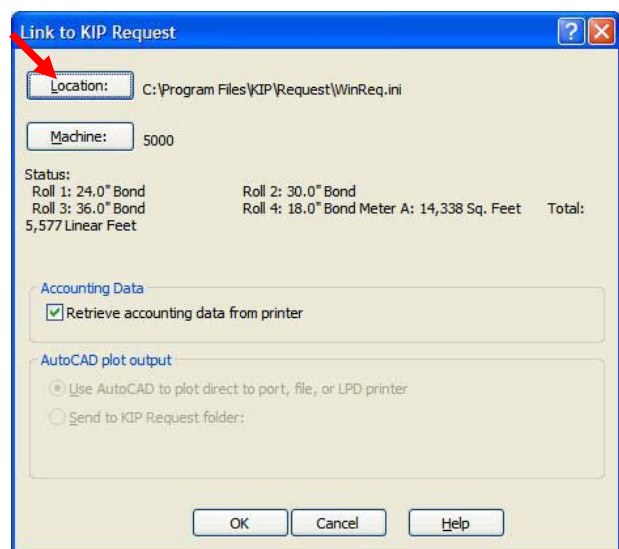
- 1) Click on *Custom Properties*
- 2) Then click on the button to see the KIP Custom Settings dialog box.
- 3) A number of the features of the KIP Request software have been directly integrated into the KIP HDI driver; these features are enabled by “linking” the HDI driver to the KIP Request software.



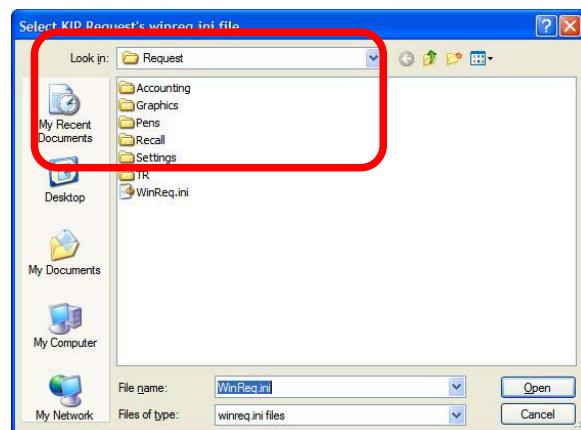
- 4) By clicking the “Link” to the KIP Request Software” checkbox, the user will be asked to locate the **KIP Request configuration** file (this is the file the HDI driver uses to employ the KIP Request features.)



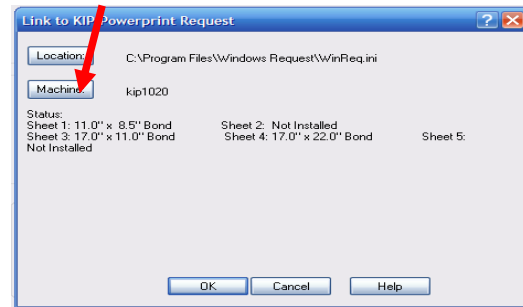
- 5) The following dialog box requires the user to locate the winreq.ini file. Click on the “location” button.



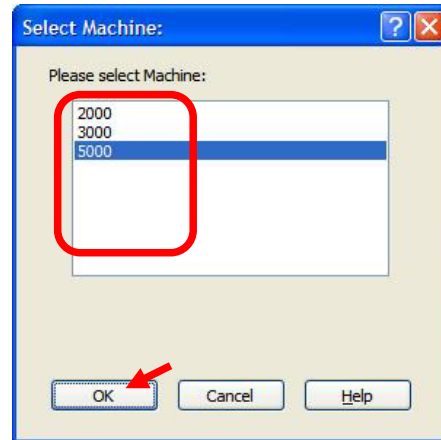
- 6) It will point to the default location, which is C:\Program Files\KIP\Request.



- 7) Click the *Machine* button, to list of all of the machine models connected in Request and select which machine to link. Please note that the models listed are dependent on those used in Request.

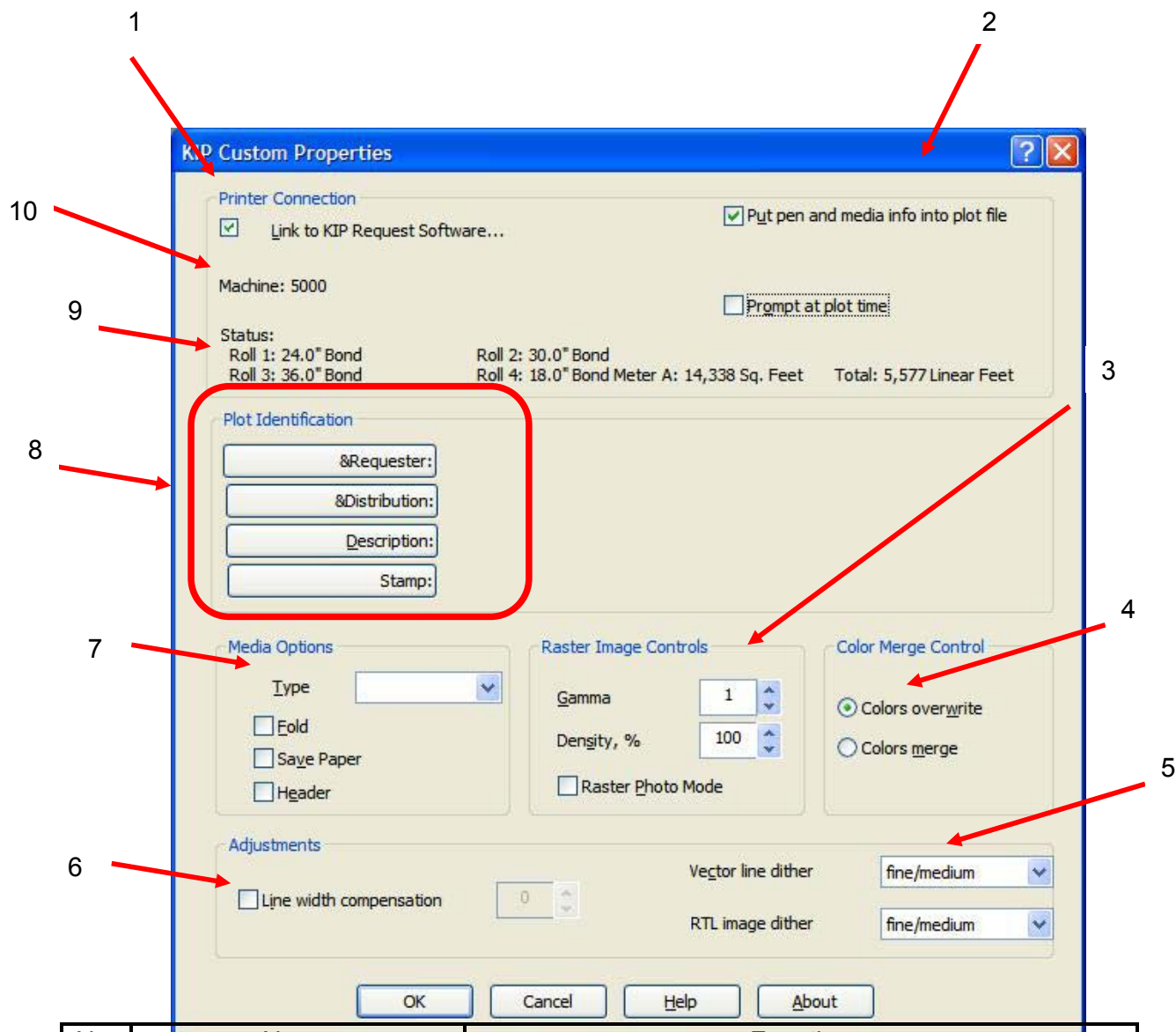


- 8) Select “OK” to finish linking the KDI to KIP Request.



- 9) The KIP custom settings dialog box should display “Real Time Status” from the KIP printer. Users have the ability to track printing from the AutoCAD application by Requester, Job Number, and Description. Users also have the ability to add a stamp to their document from the KIP HDI driver.

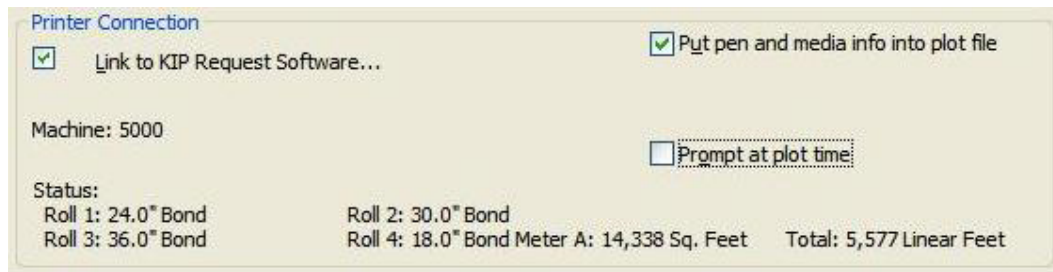
## 5.0 Custom Settings



No.	Name	Function
1	Link to KIP Request	Enables advanced features on <i>Custom Properties</i>
2	Put Pen and Media info in plot file	Places all media and advanced pen information inside the file to overwrite default settings.
3	Raster Image Control	Adjustment for raster embedded images. Gamma and density controls.
4	Color Merge Control	Line Merge and color overlay control.
5	Dither Patterns	Controls dither patterns for vector lines and raster embedded images
6	Line Width Compensation	Controls overall line thickness or thinness
7	Media Options	Selects the type of media, folded output (optional, media save and printed header.
8	Plot Identification	Used for accounting / job tracking and header information. Preset stamps from KIP Request can also be selected.
9	Status	"Real-Time" printer status. Includes installed media.
10	Machine	Displays currently select printer model



## 5.1 Printer Connection



### 5.1.1 Link to Request Software

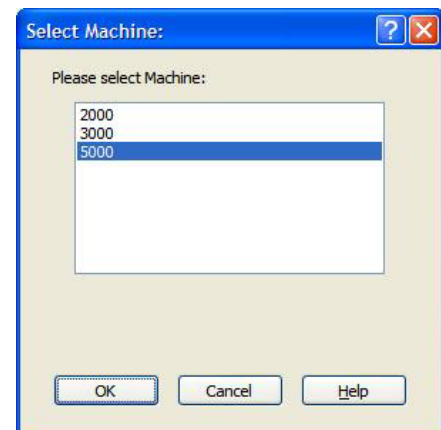
This button should be selected to utilize the advanced features of the Custom Properties screen. It links the AutoCAD Driver to the Request Software.

### 5.1.2 Put Pen and Media Info into File

Includes all print file header information necessary for proper processing on the KIP IPS controller. This includes the media types and sizes, merge control and the Raster Image control to override the default settings in the printer.

### 5.1.3 Machine

Displays currently installed printing devices. Installations with multiple printers can select the specific printer as noted in the installation section.



### 5.1.4 Status

This region shows the current:

- roll width and type
- any misfeeds
- toner requirements
- standby mode of the printer

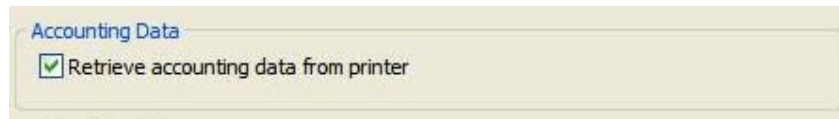
This is an active communication with the printer. The status is shown at the desktop of the user rather than requiring the user to visit the printer.



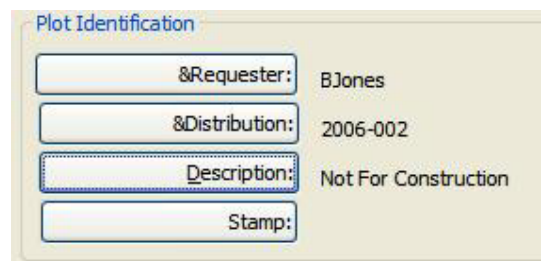
## 5.2 Plot Identification

The following features can be used in environments where job costing or department allocations are required for prints on the KIP 3000. They can also be useful for print identification and print distribution as this information can be placed in a header.

Unified Accounting – The AutoCad Driver points to a central location Ex. A KIP 3000 which has a centralized list and rules for accounting. For information on how to set up unified Accounting please see the Request or Print NET sections. NOTE: Unified Accounting is on by default. Unified accounting is only available for HDI 8 and HDI 9 based products.



Please see the Appendix for advanced naming variables.



### 5.2.1 Requester / User Name

This button allows the user to select a predetermined User Name from a drop down list or manually type a name. This field may be configured to be mandatory and password protected (see KIP Request Software Guide). The drop down variables and passwords themselves are also configured in the Request Software. %Username may be used as an environment variable.

### 5.2.2 Job Number

This button allows the user to select a predetermined Job Number from a drop down list or manually type the job number. This field may be configured to be mandatory and password protected (see KIP Request Software Guide). The drop down variables and passwords themselves are also configured in the Request Software.

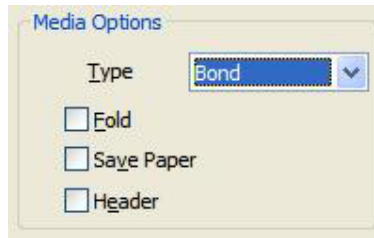
### 5.2.3 Description

This button allows the user to select a predetermined Description from a drop down or manually type a description. This field may be configured to be mandatory and password protected (see KIP Request Software Guide). The drop down variables and passwords themselves are also configured in the Request Software.

### 5.2.4 Stamp

This button allows a stamp (predetermined in the Request Software) to be placed on the print(s). The creation and placement of the stamp is preformed in the request application. (see KIP Request Software Guide)

## 5.3 Media Options



### 5.3.1 Type

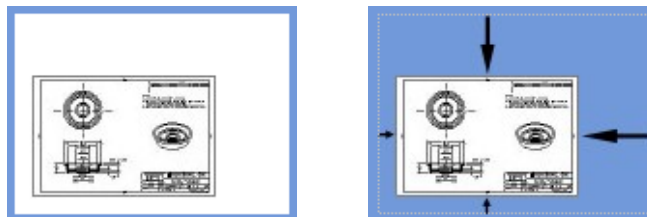
This drop down list has the listed media types that may be installed in the KIP printer. They include **Bond**, **Vellum** and **Film**. Please note the *Status* region to confirm the media currently installed. If media selected for a print is not currently installed, the printer will “hold the job” and wait for the media type to be satisfied prior printing the job.

### 5.3.2 Fold

Folds the print according to the fold patterns configured on the KIP IPS. Please note that the optional folder must be installed for this action to occur.

### 5.3.3 Save Paper

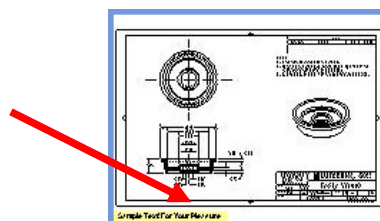
If the media size selected is larger than the image size, this button will prevent excess media (waste) from being consumed in the print process. This occurs in the length of the print. This does not affect image output.



Note: If the Printer is set to “Closest,” the nearest roll width installed will be used to even further reduce media waste (more than one roll width must be installed of the same media type).

### 5.3.4 Header

A text header can be placed on the paper for print identification. The information placed in the **Plot Identification** will be printed on the print



## 5.4 Raster Image Control

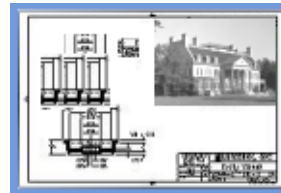
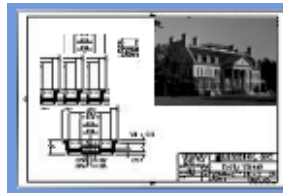


### 5.4.1 Gamma

This value sets the gamma level of embedded raster images on the print file. Gamma is the overall contrast of the image.

### 5.4.2 Density

This value sets the density of the image without affecting lines or shades in a print (the vector data). This can be used to enhance photos or other raster images placed within a drawing. A higher value will have a greater density.

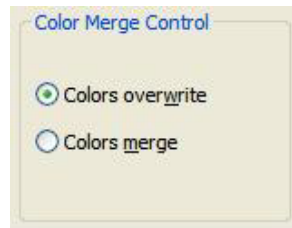


### 5.4.3 Raster Photo Mode

This button is used to print the shading effects of a raster image. Some raster images are meant to be 100% solid (no tones such as a line). Others are pictures or drawings where shades are required. Select Photo Mode to print the raster image as shades rather than 100% solid. Embedded Excel or Word documents should have this un-selected for optimum output.

## 5.5 Color Merge Control

Color merge is the prevention or selection of a third color (or shade when printer on the KIP 3000) where layers of a drawing overlap.



Color Overwrite



Color Merge



## 5.6 Adjustments



### 5.6.1 Line Width Compensation

Controls line weights on a global basis. Values can be from -4.0 to +4.0. A higher value will result in all lines increasing in thickness. A lower value will result in all lines decreasing in thickness.

### 5.6.2 Vector Line Dither

Controls dithering patterns for grayscale line entities. Values are from Fine (Tight) to Coarse (Wide) dither patterns.



#### Note

This does not control vector fill areas. This should be set at the KIP IPS

### 5.6.3 RTL Image Dither

Works in conjunction with *Raster Image Control*: if Raster Photo Mode is enabled, then RTL Image dither can be controlled. Values are from Fine (tight) to coarse (wide) dither patterns. Photographic images work best with a more coarse setting while embedded text documents from Word or Excel work best with a Fine setting.

# 6.0 Appendix

---

## 6.1 Accounting Features- Variables

Specialized names or masks can be used for the accounting data fields in the Custom Properties of the KIP AutoCAD Driver (Requester, Job Number, and Description)

Both the Requester and Job Number fields by default are recorded into the KIP Controller Accounting log. The Job Number field can then be the key field used to query Production Reports directly from the KIP Unattend software. The KIP Controller log can also be imported into any program that can read ASCII data.

### Specialized Mask Names and Rules

These customized names can be assigned to the mask elements using all normal methods.

Dwgname and dwgpath are the only two variables that can be set.

Example:

AutoCAD reports original file path of drawing named "R300-20.DWG" and the path that the file is stored in as:

C:\Program Files\AutoCAD 2006\drawings\R300-20.DWG

If mask item is set to:

Dwgname      logged is "R300-20"

Dwgpath      logged is 'C:\Program Files\AutoCAD 2006\drawings\R300-20.DWG'

dwgpath=x\x\x\x where = sign and following is optional mask to select path elements.  
x replaced by # includes that element of path to be used in accounting data.

dwgpath=x\#\x      logged is 'Program Files'

dwgpath=x\##      logged is "Program Files\AutoCAD 2006"

## Section 10

# KIP Request

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# 1. 0 Introduction

---

## 1.1 Introduction

KIP Request software can be used to send documents, or sets of documents, to a KIP Printer. Request can be used from a workstation enabling users to print across a network. It has many advanced features and powerful functions to allow customization of prints.

Using the Request software, allows the “requester” a number of adjustable options like selection of username, job number, media type, zoom, number of copies, description of job, pen table adjustments, time / date selection, invert, mirror, stamping, header and fold options to name a few features.

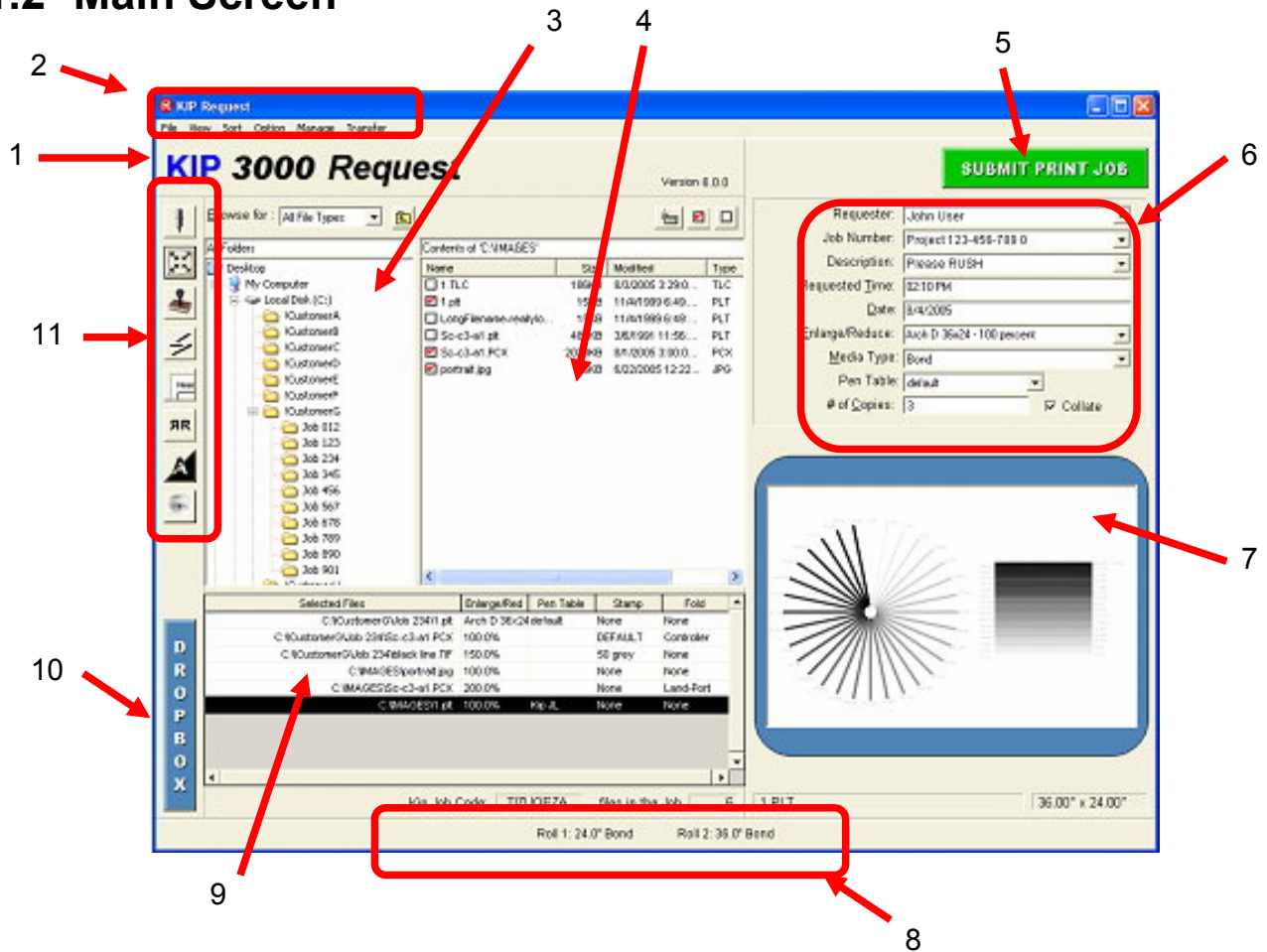
The Request package also allows configuration of the KIP 3000. This include scan to FTP location, accounting to include Passwords and Usernames, as well as retrieve scanned images from KIP 3000 IPS Mailboxes.

It is also used to configure KIP PrintNet another submission utility that is web browser based.

The KIP Request software is a comprehensive tool which allows access to the advanced functions and features for the KIP 3000.



## 1.2 Main Screen

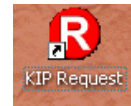


No.	Name	Function
1	Printer Selection	Click on the "name" to select the printer you wish to print to if more than one KIP device installed.
2	Menu	Menu for multiply functions in the GUI and configuration of the software / system.
3	Folder Select	Use this region to select the folder you wish to print files from.
4	File Select	Displays the files in a folder to allow selection.
5	Submit	After file selection and adjustments, sends job for printing.
6	Key Job Settings	This area allows the key details to be applied to a job, if so needed.
7	Pre -View	Files can be pre-viewed prior to printing. Click on this area to pre-view a file.
8	Printer / Job Info	Displays current printer roll information or status as well as basic job / file information
9	Job List	Displays files for printing and any function applied to the file
10	Dropbox	For drag and drop function of file selection
11	Advanced Job Settings	Allows advanced job and print configurations, such as Zoom, Stamp, Fold, and Pen Control.

## 1.3 Simple Printing

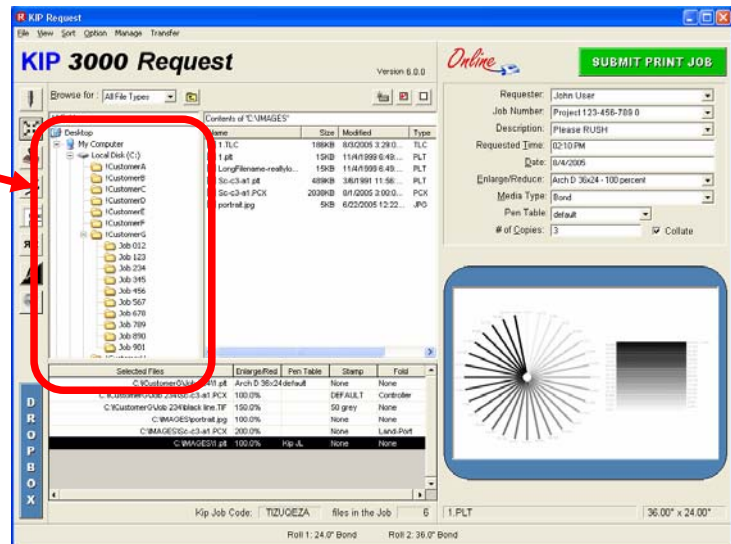
The following describes how to make a basic job submission to the KIP printer.

- 1) Click on the “KIP Request” icon on your Desk Top

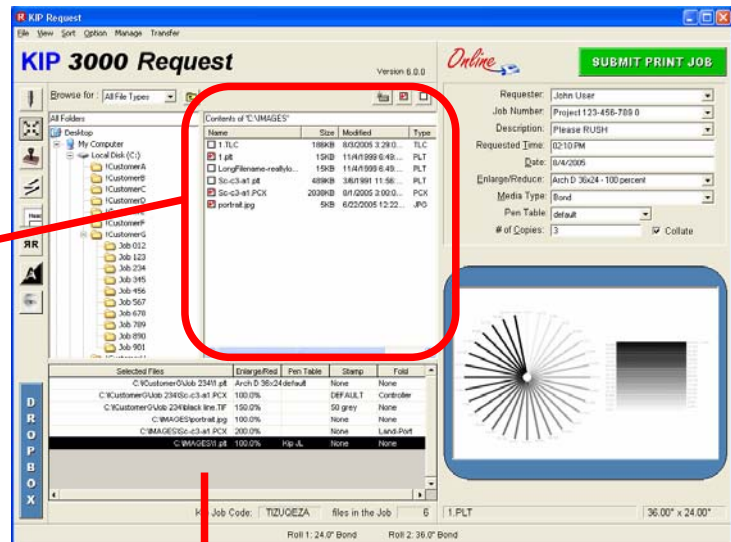


- 2) Or from the “Start” button click on:
  - a) All Programs
  - b) KIP Programs
  - c) KIP Request

- 3) Browse to the folder where the files you wish to print are located on your local PC or on the network. (usual Windows mouse functions for folder selection)



- 4) Click on the file(s) to print which will be shown with a “check mark” in the box beside the file.



- 5) The files selected will now also be shown in the lower box noting any zoom, pen, stamp and fold to be applied.

Selected Files	Enlarge/Red	Pen Table	Stamp	Fold
C:\Customer\Job 234\1.plt	Arch D 36x24 default	None	None	
C:\Customer\Job 234\Sc-c3-a1.PCX	100.0%	DEFAULT	Controller	
C:\Customer\Job 234\black line.TIF	150.0%	50 grey	None	
C:\IMAGES\portrait.jpg	100.0%	None	None	
C:\IMAGES\Sc-c3-a1.PCX	200.0%	None	Land-Port	
C:\IMAGES\1.plt	100.0%	Kip JL	None	None

- 6) Complete any Key Job Settings that may be required such as user name, zoom, media type, collation and number of copies / sets.

Requester:	John User	
Job Number:	Project 123-456-789 0	
Description:	Please RUSH	
Requested Time:	02:10 PM	
Date:	8/4/2005	
Enlarge/Reduce:	Arch D 36x24 - 100 percent	
Media Type:	Bond	
Pen Table:	default	
# of Copies:	3	<input checked="" type="checkbox"/> Collate

- 7) Press the Submit Print Job button.



- 8) The files selected will be printed.

**NOTE:**

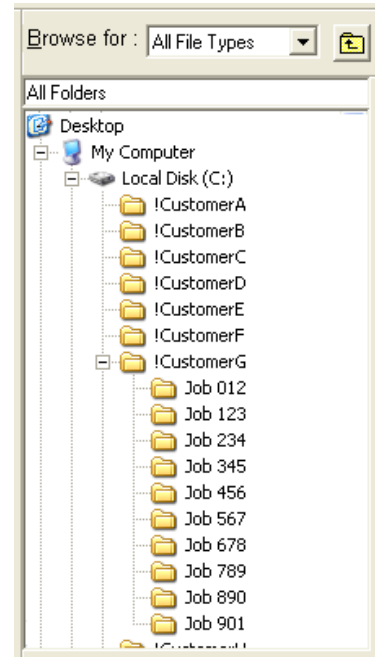
Later in this manual, descriptions of custom settings which you may wish to apply to prints, are detailed. Custom settings should be configured prior to selection of the files.

## 2.0 Function / Feature Details

### 2.1 Folder Select

#### 2.1.1 Select a folder

- a) Using the mouse to select a drive letter, computer or other location on the PC or network where the files to be printed are located.
- b) Click once to view the files within displayed in the file region.



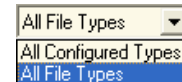
#### 2.1.2 Folder up

The Folder Up icon takes you to the next higher folder in the folder structure.



#### 2.1.3 Display File types “Browse for”

Request can be configured to only display files that are printable in the File Select area or to display all file types. The Configured Types are set by the administrator. Please see the INI configuration for details on how to set this feature's function.



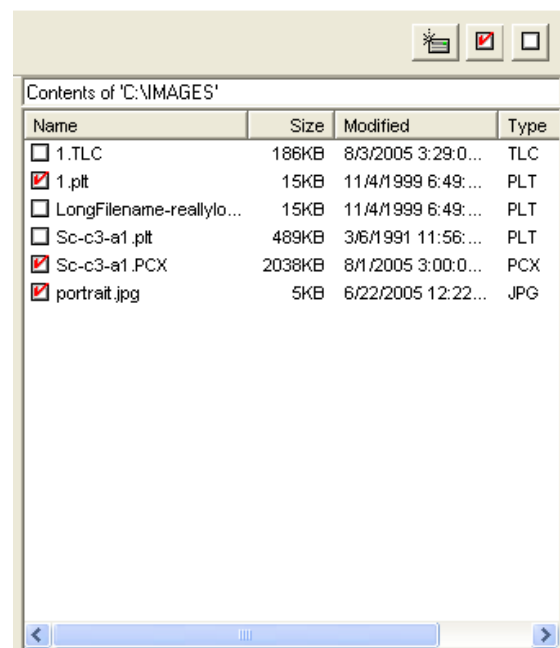
### 2.2 File Select

#### 2.2.1 Select a file

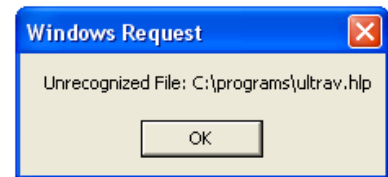
- a) After selection of the folder which contains the files for printing, files within the folder will be displayed in this area. The details of the file are also noted, such as size type etc.

Note: This area can be resized within the region provided.

- b) Click on the file to be printed: a red Check will indicate that they are selected.



- c) If an invalid file is selected, which cannot be printed, a note box will appear. ( in this case a .hlp file can not be printed )



File types which *can* be selected are:

HPGL/2 formats (.plt, .hpg, .gl2, .000, .rtl, .906, .907, etc.)  
 HPGL formats  
 HP-RTL formats  
 Autodesk DWF (.dwf)  
 Adobe Portable Document Format (.pdf)\*  
 Postscript (.ps)\*  
 Encapsulated Postscript (.eps)\*  
 TIFF Group 4 (.tif)  
 CALS Group 4 (.cal)  
 PCX Monochrome (.pcx)  
 Intergraph (.cit)  
 JPEG (.jpg)  
 Computer Graphics Metafile (.cgm)\*  
 Government Group 4 (.c4)  
 ASCII File formats (.txt, et cetera)  
 KIP Format (.tlc)

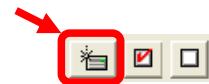
\* Requires an Option

All file formats are registered to there respective companies.

These are some of the most common file extensions. If the file extension differs and the file still remains a valid type, it will print. That is a .plt file can be renamed .xyz and as long as the structure remains intact the file will print.

### 2.2.2 Recall Last File(s)

The last file(s) sent to be printed (after you press the Submit Button) can be recalled with this button. This allows quick resubmission if required for additional changes and sets.



### 2.2.3 Select All

This button selects all files in the current folder.



### 2.2.4 Unselect All

This button deselects all files in the current folder

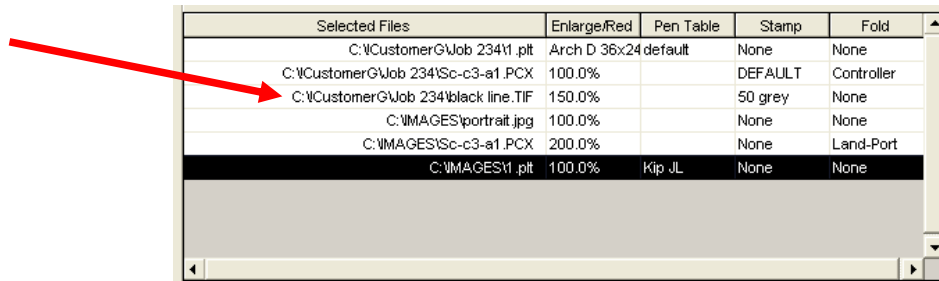


## 2.3 Job List

### 2.3.1 Selected Files

Once selected (in 2.2.1), all files to be printed are listed here. It includes the file name (with location structure), pen table, stamp and fold pattern to be applied to each file. This region allows further settings to be applied to the selected file(s).

Note: This are can be resized within the region provided.



Selected Files	Enlarge/Red	Pen Table	Stamp	Fold
C:\CustomerG\Job 234\1.pit	Arch D 36x24 default		None	None
C:\CustomerG\Job 234\Sc-c3-a1.PCX	100.0%		DEFAULT	Controller
C:\CustomerG\Job 234\black line.TIF	150.0%		50 grey	None
C:\IMAGES\portrait.jpg	100.0%		None	None
C:\IMAGES\Sc-c3-a1.PCX	200.0%		None	Land-Port
C:\IMAGES\1.pit	100.0%	Kip JL	None	None

In the above example, the third file from the top (black line.TIF) will be enlarged 150%, applied a pen pattern called “50 Grey” and it will not be folded.

### 2.3.2 Enlarge / Reduce

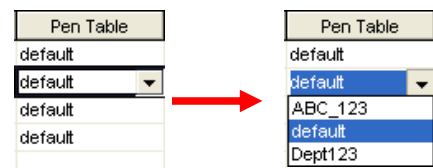
Other zoom settings can be applied from the Advanced Job Settings.

### 2.3.3 Pen Table

Pen type and styles can be applied to vector or hybrid files. They can include pen widths, raster density, junctions, etc. Please see Pens in 2.5.1 for greater details.

The name of the applied pen table is displayed here and can be changed prior to printing.

- Click on the “pen Table” of the file you wish to change
- A drop down arrow will appear
- Select a predetermined pen table. (see 2.5.1 to create tables)

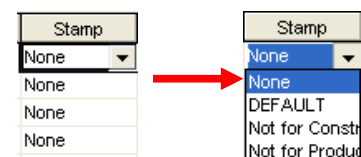


### 2.3.4 Stamp

Stamps (or watermarks) can be applied to any printed document. Please see Pens in 2.5.3 for greater details.

The name of the applied stamp is displayed here and can be changed prior to printing.

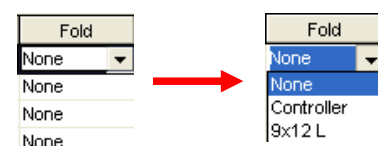
- Click on the Stamp of the file you wish to change
- A drop down arrow will appear
- Select a predetermined stamp. (see 2.5.3 to create stamps)



### 2.3.5 Fold

If an optional Folder is connected, fold patterns can be applied to the documents. This is called matrix Folding. To set up fold patterns please see 2.5.4 for greater details. The name of the Fold Pattern is displayed here and can be changed prior to printing.

- Click Fold on the file you wish to change
- A drop down arrow will appear

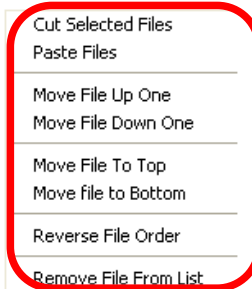


- c) Select a predetermined Fold. (see 2.5.4 to create Fold Patterns)
- d) Please note that the fold parameter can be set in the Printer and displayed as “Controller” in the Request. This uses the automatic settings of the printer to determine the fold pattern for standard documents. For documents that may require special folding please create the pattern in the Request software


### 2.3.6 File Order

File print order, and removal can be preformed in the JOB list Area. After files have been selected “right click” in the Job List area.

A menu will appear.



To perform some of the functions in the menu, a file(s) will need to be selected,



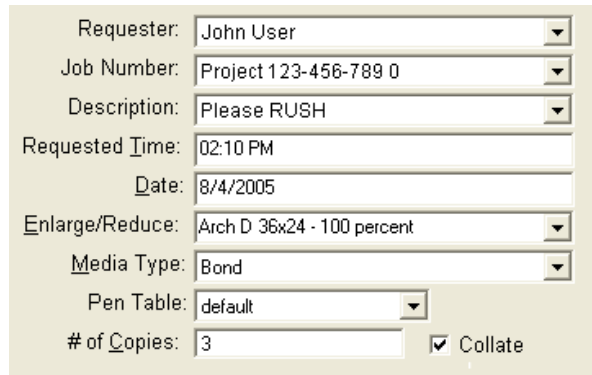
Selected Files	Enlarge/Red	Pen Table	Stamp	Fold
C:\CustomerG\Job 234\1 .plt	Arch D 36x24 default		None	None
C:\CustomerG\Job 234\Sc-c3-a1.PCX	100.0%		DEFAULT	Controller
C:\CustomerG\Job 234\black line.TIF	150.0%		50 grey	None
C:\IMAGES\portrait.jpg	100.0%		None	None
C:\IMAGES\Sc-c3-a1.PCX	200.0%		None	Land-Port
C:\IMAGES\1 .plt	100.0%	Kip JL	None	None

- a) **Cut Selected Files**  
This is a tool to remove the selected files.
- b) **Paste Files**  
This function is used to ‘Add’ new files between files in the selected files area.
- c) **Move File Up One**  
Select a file to move up one in the selected files area.
- d) **Move File Down One**  
Select a file to move down one in the selected files area.
- e) **Move File to Top**  
Select a file to move up to the top in the selected files area.
- f) **Move File to Bottom**  
Select a file to move down to the bottom in the selected files area.
- g) **Reverse File Order**  
This tool reverses the entire job list in the selected files area.
- h) **Remove File from List**  
This tool is used to ‘Delete’ files from the selected files area list.

## 2.4 Key Job Settings

### 2.4.1 Requester

This field can be used for accounting. Information entered is applied to the KIP Job and Print Logs. This information will also be printed in the KIP Header if applied. The label of the field, “Requester” can also be customized. (i.e. “Operator” or “User”). This is detailed in the .INI Configuration.



The screenshot shows a form with the following fields and values:

Requester:	John User
Job Number:	Project 123-456-789 0
Description:	Please RUSH
Requested Time:	02:10 PM
Date:	8/4/2005
Enlarge/Reduce:	Arch D 36x24 - 100 percent
Media Type:	Bond
Pen Table:	default
# of Copies:	3
	<input checked="" type="checkbox"/> Collate

### 2.4.2 Job Number

This field can be used for accounting. Information entered is applied to the KIP Job and Print Logs. This information will also be printed in the KIP Header if applied. The label of the field, “Job Number” can also be customized (i.e. “Department Number” or “Job Name”).

### 2.4.3 Description

This field can be used for accounting. Information entered is applied to the KIP Job and Print Logs. The label of the field, “Description” can also be customized (i.e. “Sales” or “New Construction”).

#### **NOTE: Unified Accounting**

Unified Accounting will centralize all your accounting information to the IPS. To enable this feature see the *INI Configuration* section.

### 2.4.4 Requested Time

Users can select a job be printed at a certain time.

### 2.4.5 Date

Users can select a job be printed at a certain date

### 2.4.6 Enlarge / Reduce

User can select a preconfigured zoom percentage, or key in a percentage from 5% to 360%. If FORCE SIZE is selected, the FORCE SIZE MENU opens (See 2.5.2).

### 2.4.7 Media Type

This field allows the selection of the type of media the job is to be printed on. Types include bond, vellum, and film (Mylar). Applying the “On Hold” media type will place the job in the queue but will not print until a valid media type is applied by the queue Manager. Other media types can be configured as noted in the INI Configuration section.



#### 2.4.8 Pen Table

This field displays the Pen Table that will be applied to vector files as they are selected. Pull down the menu to select a different Pen Table. Click the Pens button to make changes within the selected Pen Table (see 2.5.1).

#### 2.4.9 # of Copies

This field chooses the total number copies from 1 to 999.

Requester:	John User	
Job Number:	Project 123-456-789 0	
Description:	Please RUSH	
Requested Time:	02:10 PM	
Date:	8/4/2005	
Enlarge/Reduce:	Arch D 36x24 - 100 percent	
Media Type:	Bond	
Pen Table:	default	
# of Copies:	3	<input checked="" type="checkbox"/> Collate

#### 2.4.10 Collate

This field allows collated or uncollated prints.

111, 222, 333 ... or 123, 123, 123 ...

## 2.5 Advanced Job Settings

On the left side of the main Request screen are buttons to allow advanced settings and configuration of the prints.

These buttons are:

- Manage
- Pen Configuration
- Zoom
- Stamp
- Fold
- Header
- Mirror
- Invert
- View



2.5.1 Pen Configuration

This button allows the modification of the settings of vector plot files. Files' pen table and screening information can be changed. Plot File Setup also allows borders, modification of halftone settings, dither patterns and more. The following is a list of the all the controls:



Pen Table Setup Menu

default.PEN

**Linewidth / Pattern**

☒ **USE COLORS**  
Use the pen information already embedded within the plotfile.

☐ **FORCE PENS**  
Force the settings from the table below, overriding the plotfile's original information.

Pen#	Width (.xxx Inch / MM)	Screening Pattern	Color
1	0.40mm	100.00%	Black
2	0.40mm	100.00%	Black
3	0.40mm	100.00%	Black
4	0.40mm	100.00%	Black
5	0.40mm	100.00%	Black
6	0.40mm	100.00%	Black
7	0.40mm	100.00%	Black
8	0.40mm	100.00%	Black
9	0.40mm	100.00%	Black
10	0.40mm	100.00%	Black
11	0.40mm	100.00%	Black
12	0.40mm	100.00%	Black
13	0.40mm	100.00%	Black
14	0.40mm	100.00%	Black
15	0.40mm	100.00%	Black
16	0.40mm	100.00%	Black
17	0.40mm	100.00%	Black
18	0.40mm	100.00%	Black
19	0.40mm	100.00%	Black
20	0.40mm	100.00%	Black
21	0.40mm	100.00%	Black
22	0.40mm	100.00%	Black
23	0.40mm	100.00%	Black
24	0.40mm	100.00%	Black
25	0.40mm	100.00%	Black
26	0.40mm	100.00%	Black
27	0.40mm	100.00%	Black
28	0.40mm	100.00%	Black
29	0.40mm	100.00%	Black
30	0.40mm	100.00%	Black
31	0.40mm	100.00%	Black
32	0.40mm	100.00%	Black
33	0.40mm	100.00%	Black
34	0.40mm	100.00%	Black
35	0.40mm	100.00%	Black
36	0.40mm	100.00%	Black
37	0.40mm	100.00%	Black
38	0.40mm	100.00%	Black
39	0.40mm	100.00%	Black
40	0.40mm	100.00%	Black
41	0.40mm	100.00%	Black
42	0.40mm	100.00%	Black
43	0.40mm	100.00%	Black
44	0.40mm	100.00%	Black
45	0.40mm	100.00%	Black
46	0.40mm	100.00%	Black
47	0.40mm	100.00%	Black
48	0.40mm	100.00%	Black
49	0.40mm	100.00%	Black
50	0.40mm	100.00%	Black
51	0.40mm	100.00%	Black
52	0.40mm	100.00%	Black
53	0.40mm	100.00%	Black
54	0.40mm	100.00%	Black
55	0.40mm	100.00%	Black
56	0.40mm	100.00%	Black
57	0.40mm	100.00%	Black
58	0.40mm	100.00%	Black
59	0.40mm	100.00%	Black
60	0.40mm	100.00%	Black
61	0.40mm	100.00%	Black
62	0.40mm	100.00%	Black
63	0.40mm	100.00%	Black
64	0.40mm	100.00%	Black
65	0.40mm	100.00%	Black
66	0.40mm	100.00%	Black
67	0.40mm	100.00%	Black
68	0.40mm	100.00%	Black
69	0.40mm	100.00%	Black
70	0.40mm	100.00%	Black
71	0.40mm	100.00%	Black
72	0.40mm	100.00%	Black
73	0.40mm	100.00%	Black
74	0.40mm	100.00%	Black
75	0.40mm	100.00%	Black
76	0.40mm	100.00%	Black
77	0.40mm	100.00%	Black
78	0.40mm	100.00%	Black
79	0.40mm	100.00%	Black
80	0.40mm	100.00%	Black
81	0.40mm	100.00%	Black
82	0.40mm	100.00%	Black
83	0.40mm	100.00%	Black
84	0.40mm	100.00%	Black
85	0.40mm	100.00%	Black
86	0.40mm	100.00%	Black
87	0.40mm	100.00%	Black
88	0.40mm	100.00%	Black
89	0.40mm	100.00%	Black
90	0.40mm	100.00%	Black
91	0.40mm	100.00%	Black
92	0.40mm	100.00%	Black
93	0.40mm	100.00%	Black
94	0.40mm	100.00%	Black
95	0.40mm	100.00%	Black
96	0.40mm	100.00%	Black
97	0.40mm	100.00%	Black
98	0.40mm	100.00%	Black
99	0.40mm	100.00%	Black
100	0.40mm	100.00%	Black
101	0.40mm	100.00%	Black
102	0.40mm	100.00%	Black
103	0.40mm	100.00%	Black
104	0.40mm	100.00%	Black
105	0.40mm	100.00%	Black
106	0.40mm	100.00%	Black
107	0.40mm	100.00%	Black
108	0.40mm	100.00%	Black
109	0.40mm	100.00%	Black
110	0.40mm	100.00%	Black
111	0.40mm	100.00%	Black
112	0.40mm	100.00%	Black
113	0.40mm	100.00%	Black
114	0.40mm	100.00%	Black
115	0.40mm	100.00%	Black
116	0.40mm	100.00%	Black
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136	0.40mm	100.00%	Black
137	0.40mm	100.00%	Black
138	0.40mm	100.00%	Black
139	0.40mm	100.00%	Black
140	0.40mm	100.00%	Black
141	0.40mm	100.00%	Black
142	0.40mm	100.00%	Black
143	0.40mm	100.00%	Black
144	0.40mm	100.00%	Black
145	0.40mm	100.00%	Black
146	0.40mm	100.00%	Black
147	0.40mm	100.00%	Black
148	0.40mm	100.00%	Black
149	0.40mm	100.00%	Black
150	0.40mm	100.00%	Black
151	0.40mm	100.00%	Black
152	0.40mm	100.00%	Black
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225	0.40mm	100.00%	Black
226	0.40mm	100.00%	Black
227	0.40mm	100.00%	Black
228	0.40mm	100.00%	Black
229	0.40mm	100.00%	Black
230	0.40mm	100.00%	Black
231	0.40mm	100.00%	Black
232	0.40mm	100.00%	Black
233	0.40mm	100.00%	Black
234	0.40mm	100.00%	Black
235	0.40mm	100.00%	Black
236	0.40mm	100.00%	Black
237	0.40mm	100.00%	Black
238	0.40mm	100.00%	Black
239	0.40mm	100.00%	Black
240	0.40mm	100.00%	Black
241	0.40mm	100.00%	Black
242	0.40mm	100.00%	Black
243	0.40mm	100.00%	Black
244	0.40mm	100.00%	Black
245	0.40mm	100.00%	Black
246	0.40mm	100.00%	Black
247	0.40mm	100.00%	Black
248	0.40mm	100.00%	Black
249	0.40mm	100.00%	Black
250	0.40mm	100.00%	Black
251	0.40mm	100.00%	Black
252	0.40mm	100.00%	Black
253	0.40mm	100.00%	Black
254	0.40mm	100.00%	Black
255	0.40mm	100.00%	Black

**Resolution**  
Drawing will print at 400 DPI (Dots-Per-Inch)

**Borders:**  
Top: 0.00"  
Left: 0.00" Right: 0.00"  
Bottom: 0.00"

**Calcomp Setup:**  
Calcomp settings only apply to plotfiles generated with a Calcomp driver, or those that contain a Calcomp header. The drawing creator will know the values for these settings.  
Checksum: Off On  
End of Message Character: 3  
Sync Character: 2  
Steps per Inch: 2032

Advanced Settings

Load Save

OK Cancel

2.5.1.1 Use Colors

This applies a file's native pen width information, and half toning information. Unless you are making changes to a customer's file, USE COLORS is the setting most often used. When USE COLORS is applied, the Pen Table is shaded.

**Linewidth / Pattern**

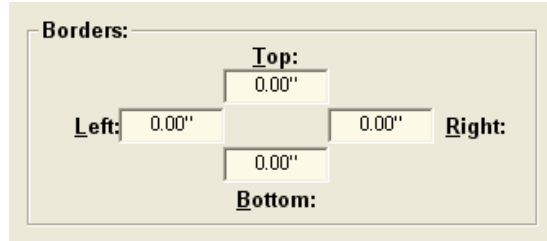
☒ **USE COLORS**  
Use the pen information already embedded within the plotfile.

☐ **FORCE PENS**  
Force the settings from the table below, overriding the plotfile's original information.

Pen#	Width (.xxx Inch / MM)	Screening Pattern	Color
1	0.40mm	100.00%	Black
2	0.40mm	100.00%	Black
3	0.40mm	100.00%	Black
4	0.40mm	100.00%	Black
5	0.40mm	100.00%	Black
6	0.40mm	100.00%	Black
7	0.40mm	100.00%	Black
8	0.40mm	100.00%	Black
9	0.40mm	100.00%	Black
10	0.40mm	100.00%	Black
11	0.40mm	100.00%	Black
12	0.40mm	100.00%	Black
13	0.40mm	100.00%	Black
14	0.40mm	100.00%	Black
15	0.40mm	100.00%	Black
16	0.40mm	100.00%	Black
17	0.40mm	100.00%	Black
18	0.40mm	100.00%	Black
19	0.40mm	100.00%	Black
20	0.40mm	100.00%	Black
21	0.40mm	100.00%	Black
22	0.40mm	100.00%	Black
23	0.40mm	100.00%	Black
24	0.40mm	100.00%	Black
25	0.40mm	100.00%	Black
26	0.40mm	100.00%	Black
27	0.40mm	100.00%	Black
28	0.40mm	100.00%	Black
29	0.40mm	100.00%	Black
30	0.40mm	100.00%	Black
31	0.40mm	100.00%	Black
32	0.40mm	100.00%	Black
33	0.40mm	100.00%	Black
34	0.40mm	100.00%	Black
35	0.40mm	100.00%	Black
36	0.40mm	100.00%	Black
37	0.40mm	100.00%	Black
38	0.40mm	100.00%	Black
39	0.40mm	100.00%	Black
40	0.40mm	100.00%	Black
41	0.40mm	100.00%	Black
42	0.40mm	100.00%	Black
43	0.40mm	100.00%	Black
44	0.40mm	100.00%	Black
45	0.40mm	100.00%	Black
46	0.40mm	100.00%	Black

#### 2.5.1.4 Border

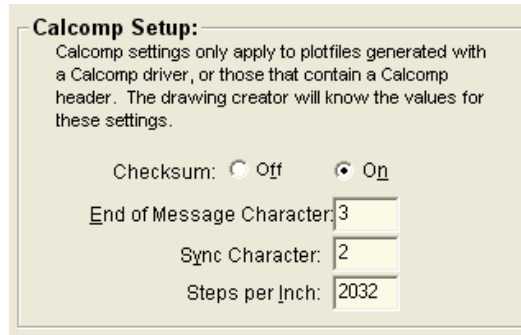
This allows a border to be used in the file. A maximum border of five inches can be applied to each edge.



The Borders dialog box is titled "Borders:". It contains four input fields for the border dimensions: "Top:" (0.00"), "Bottom:" (0.00"), "Left:" (0.00"), and "Right:" (0.00"). The fields are arranged in a cross-like pattern around a central empty box.

#### 2.5.1.5 Calcomp setup

Only use this when submitting a Calcomp language file. This changes Calcomp file settings so that the printer will interpret Calcomp files correctly. These settings include Checksum, Sync Character, End of Message Character, and Steps Per Inch. Calcomp settings only apply to plot files with a Calcomp text header. Most plot files do not contain Calcomp text headers.



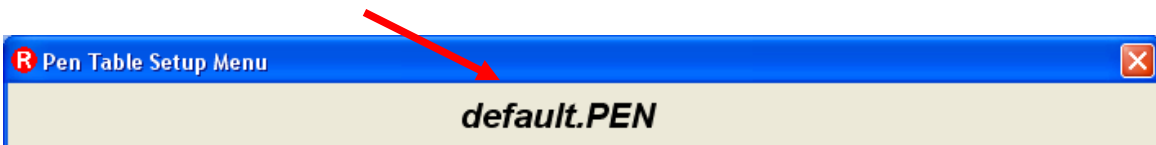
The Calcomp Setup dialog box is titled "Calcomp Setup:". It contains a text box with the following text: "Calcomp settings only apply to plotfiles generated with a Calcomp driver, or those that contain a Calcomp header. The drawing creator will know the values for these settings." Below this text are four settings: "Checksum:" with radio buttons for "Off" and "On" (the "On" button is selected), "End of Message Character:" with a text box containing "3", "Sync Character:" with a text box containing "2", and "Steps per Inch:" with a text box containing "2032".

#### 2.5.1.6 Load / Save

Saves changes in a custom Pen Table or load a table to see or make changes. Save the table once the changes have been made. The current Pen Table name is displayed at the top of the Pen Table Setup Menu.



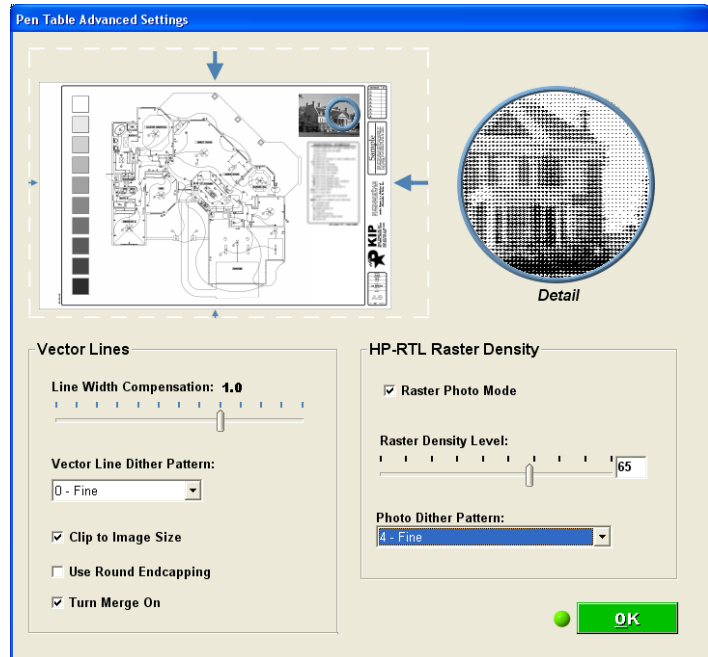
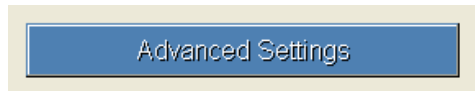
The Load / Save buttons are located at the bottom of the Pen Table Setup Menu. They consist of a "Load" button and a "Save" button, both with a blue background and white text. A red "X" icon is positioned between the two buttons.



The Pen Table Setup Menu is a window with a blue title bar that reads "Pen Table Setup Menu". The main area of the window is light gray and displays the text "default.PEN" in a bold, black font. A red arrow points to the title bar.

## 2.5.2 Advanced Settings Button

Opens the Advanced Settings Menu.



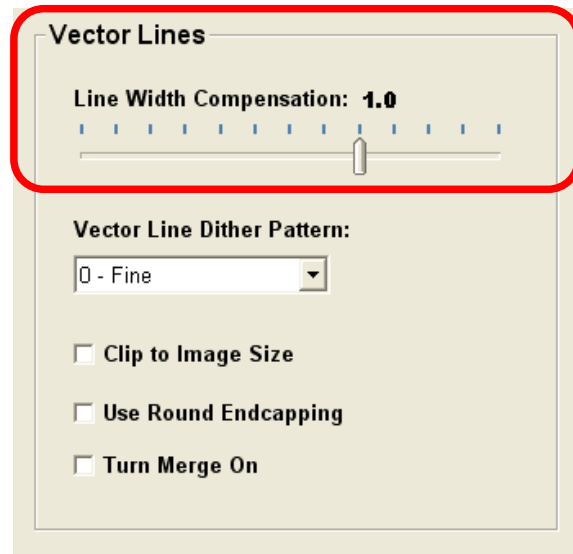
### 2.5.2.1 Line Width Compensation

This allows addition and subtraction of pixels from the overall width of all vector lines. Users have the choice of selecting negative values (to compensate for thick lines) to positive values (to compensate for thin lines)

Choosing -1.0 will remove 1 pixel from vector data lines.

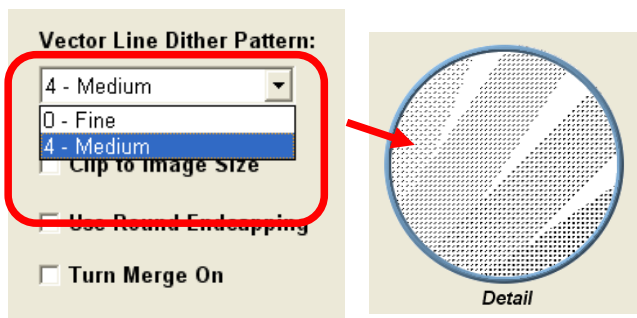
Choosing 3.0 will add 3 pixels to vector data lines.

Choosing 0.0 makes no changes to the lines.



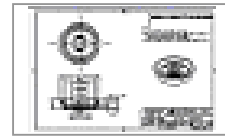
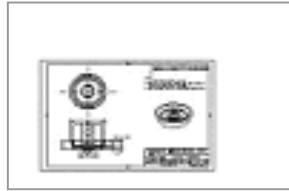
### 2.5.2.2 Vector Line Dither pattern

Users have 2 choices of vector line dither patterns. This will alter the appearance of vector grayscale in different ways. Fine is the default setting. There is no 'correct' pattern to choose. Users can choose the setting they prefer.



### 2.5.2.3 Clip to Image Size

This crops the file data to the start of image data. Apply when the file designer has saved the entire drawing area as part of the file. If an error “File Too Large To Print,” occurs, clipping to Image Size is often the solution.



### 2.5.2.4 Use Round End Capping

This will set end capping on lines in vector files to round ends instead of what has been specified in the plot file's Line Attribute command.



### 2.5.2.5 Turn Merge On

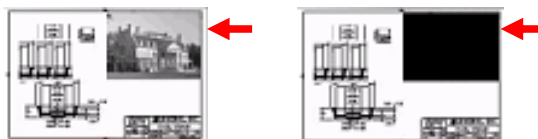
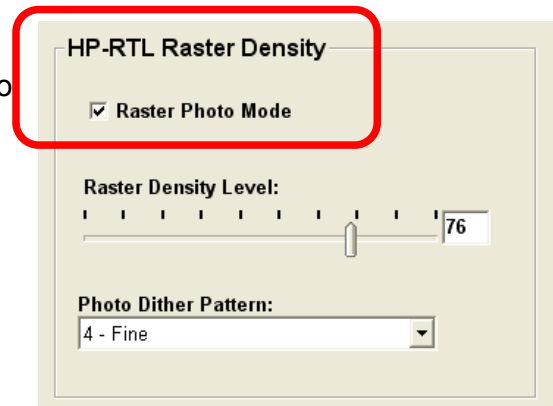
This enables the user to merge lines of different shades. When not applied, the layers within the plot file determine how lines merge on each other.



### 2.5.2.6 Raster Photo Mode

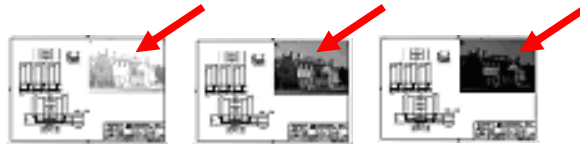
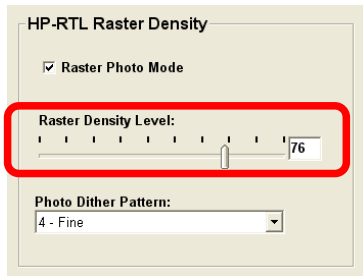
When a raster image has been embedded within a plot file, Raster Photo Mode should be used.

Raster Photo Mode can be applied to all drawings, whether they contain raster images or not. Some raster images may need to be printed in 100% solid rather than the original shading of the image.



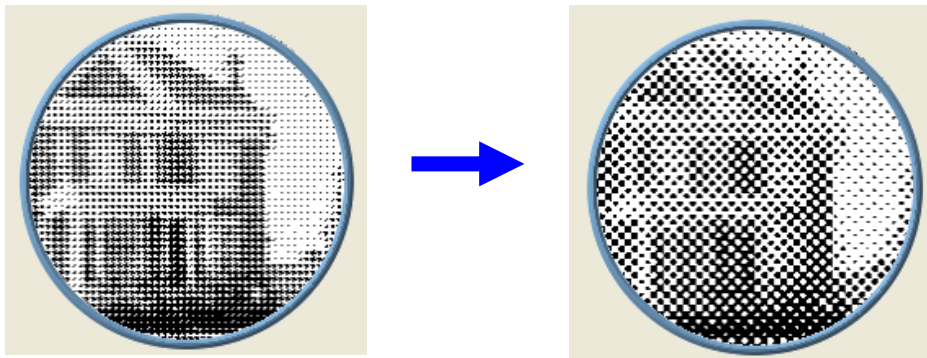
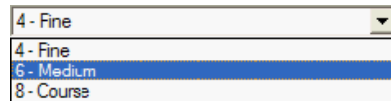
### 2.5.2.7 Raster Density Level

This slide bar will modify the density level of the embedded raster image. The scale range is from 0-100. The higher the number on the scale, the darker the image will be. A density level can also be keyed into the text field.



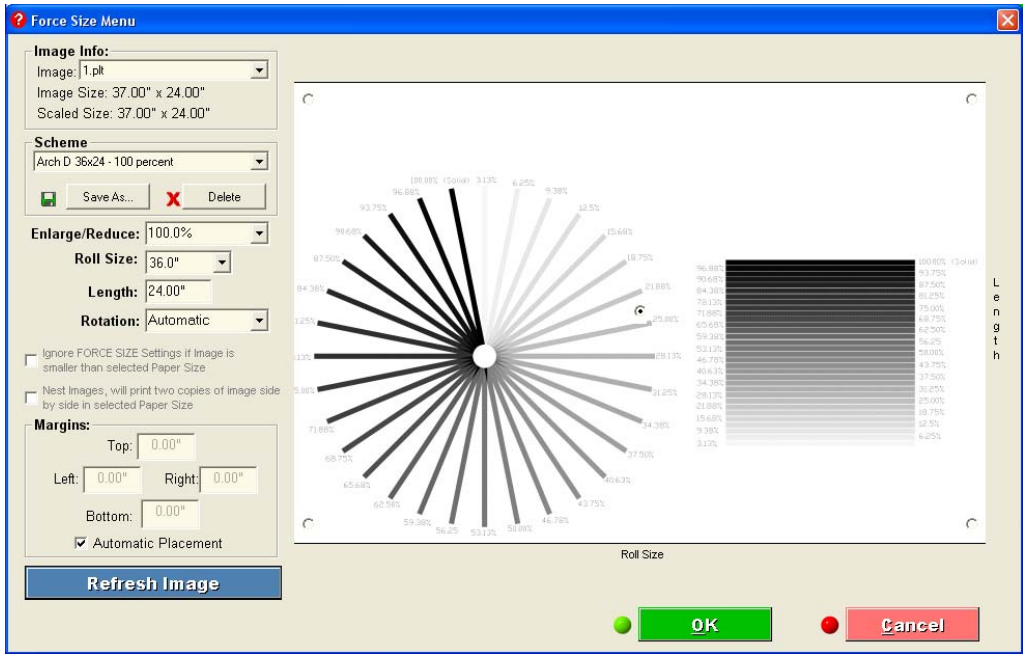
### 2.5.2.8 Photo Dither Pattern (Raster)

Users have 3 choices of raster dither output patterns. There is no 'correct' setting. Set according to user preference.



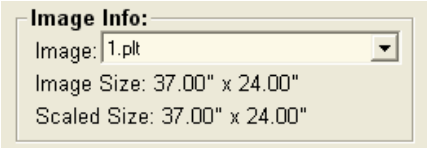
2.5.3 Enlarge / Reduce

This button allows the for scaling of the image and advanced page sizing for printing. All setting will be saved as a scheme for later use.



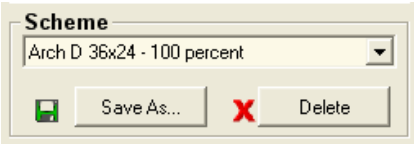
2.5.3.1 Image Information

The current selected file size and any scale applied to it will be displayed here. To note any other selected (tagged) files, use the drop down to select the required file.



2.5.3.2 Scheme

Allows a predetermine scheme (group of settings) to be applied to the files for printing. The creation or deletion of zoom/media schemes is also performed here.



2.5.3.3 Enlarge / Reduce

Select from predetermined zoom ratios with the drop down or enter a custom value in this field



2.5.3.4 Roll Size

Select the roll width to be printed on. Please note that this width must be installed into the printer for the job to commence printing. Please see the Printer Info at the bottom of the main screen to confirm the rolls installed.



### 2.5.3.5 Length

The length of the page can be entered rather than using the automatic length of the zoom file. Please also not that a value of "0" will automatically cut the media to the length of the image to avoid any waste.

Length: 24.00"

### 2.5.3.6 Rotation

All prints are automatically rotated to best fit the installed media. This can be changed to allow custom rotation of the image on the page configured in this screen. Degrees include 90, 180 and 270.

Rotation: Automatic

### 2.5.3.7 Ignore Force Size....

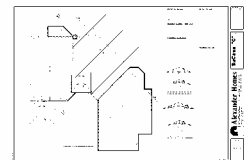
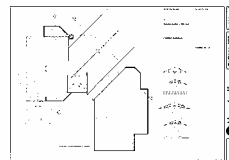
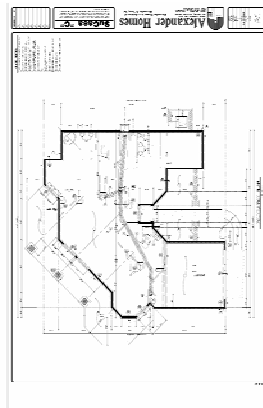
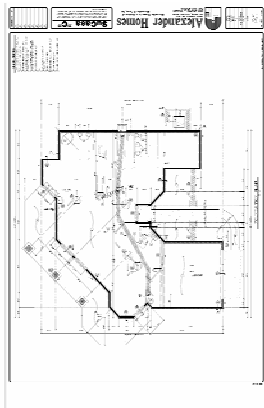
If the image is smaller than the selected paper size, no zoom ratio will be applied to the image if this button is selected.

☐ Ignore FORCE SIZE Settings if Image is smaller than selected Paper Size

### 2.5.3.8 Nest

To avoid wasting media and at times to increase print production, two images can be set side by side on a single page of media (nest the images).

☐ Nest Images, will print two copies of image side by side in selected Paper Size



### 2.5.3.9 Margins

The image can be positioned anywhere on the page using these fields.

**Margins:**

Top: 0.00"

Left: 0.00" Right: 0.00"

Bottom: 0.00"

☒ Automatic Placement



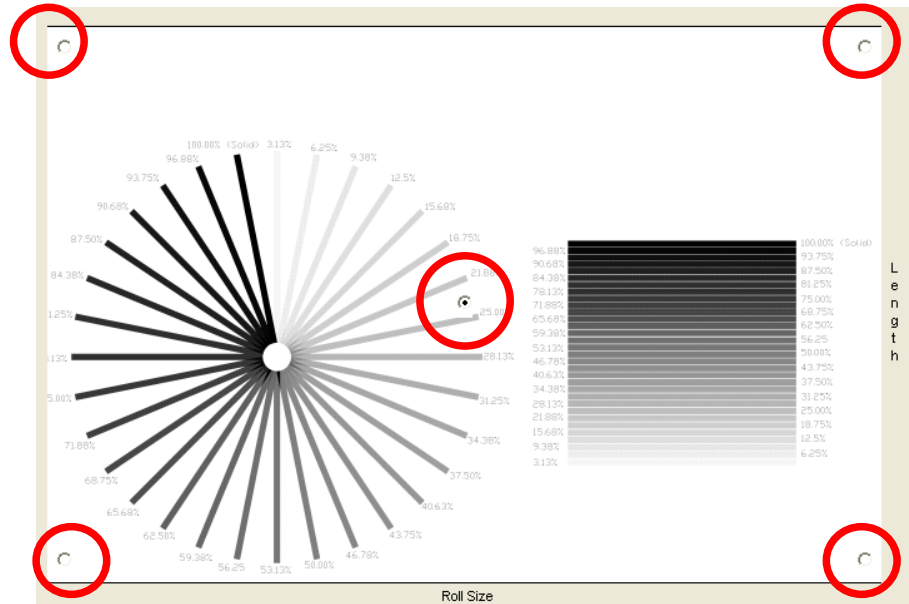
### 2.5.3.10 Refresh Image

After any settings are applied, press this button to refresh the view box.



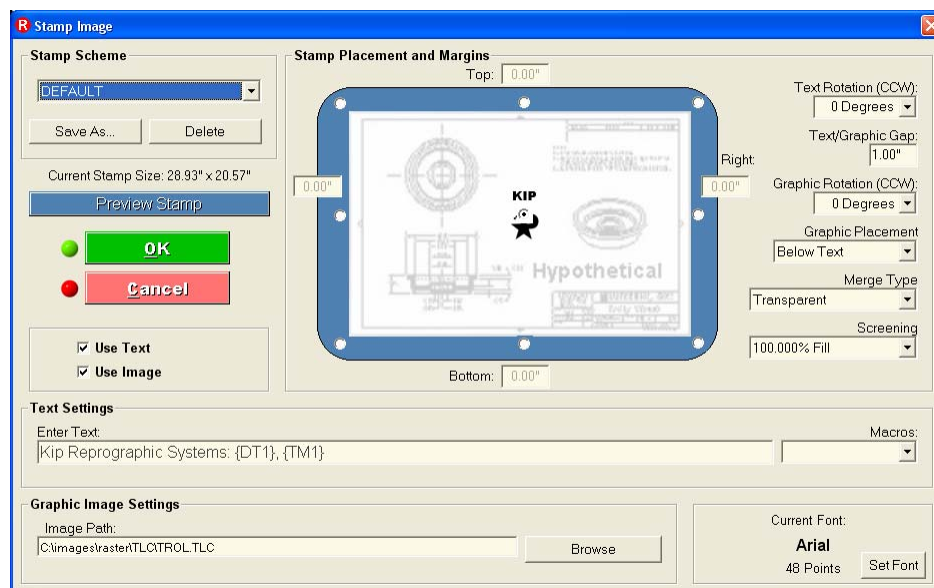
### 2.5.3.11 View Box

The view box displays the image on the page. There are also five buttons which select the position of the image on the page as well. These are Center, upper left, upper right, lower left and lower right.



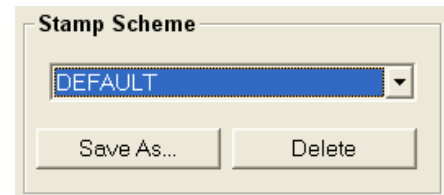
### 2.5.4 Stamp

The stamp button allows configuration of watermarks, stamps or overlays of images. Either or both text and graphics can be utilized.



#### 2.5.4.1 Stamp Schemes-

Custom Stamp settings are saved as schemes which can be used. All “stamps” are to be saved prior to their use.



#### 2.5.4.2 Use Text

This allows the user to place text in their stamp.

☒ Use Text

#### 2.5.4.3 Use Image

This allows the user to place an image in their stamp.

☒ Use Image

#### 2.5.4.4 Current Font Area

This details the settings for the current text. Click SET FONT to change the settings.

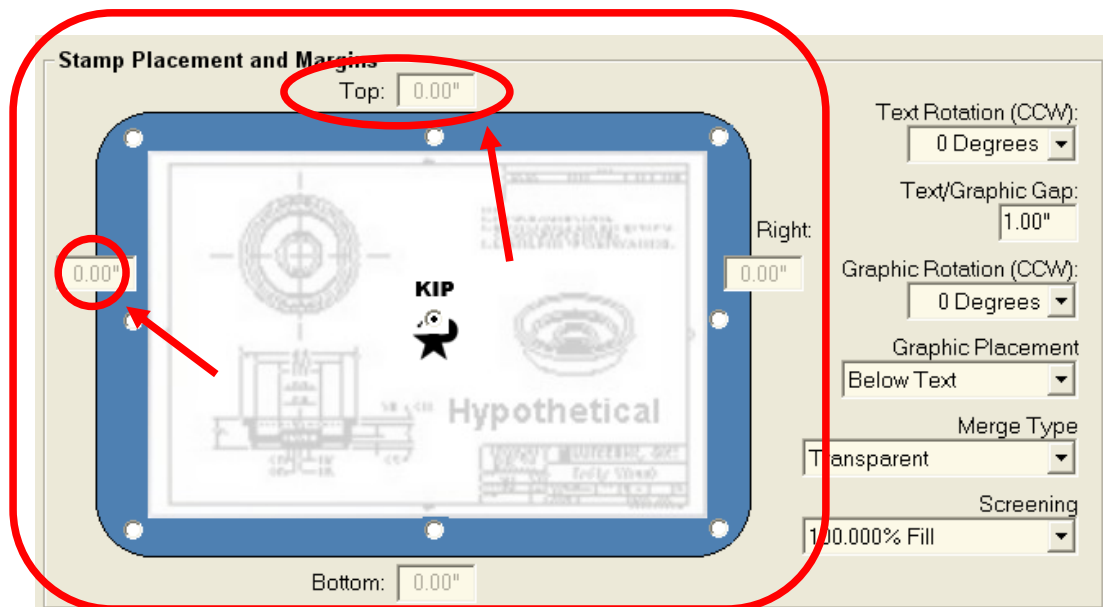


#### 2.5.4.5 Set Font

This allows the selection of the font size and type. This feature uses the standard Windows font set and sizes.

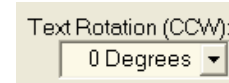
#### 2.5.4.6 Stamp Placement And Margin Area

This allows placement of the stamp in 9 preset locations. Then margins can be applied to move the image up to 5” from the selected border.



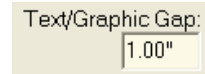
#### 2.5.4.7 Text Rotation – Pull down

Allows the user to rotate (counter clockwise) the text portion of their stamp in 45° increments. User may also click on the “KIP” in the Stamp Placement area to cycle through the Text Rotation options.



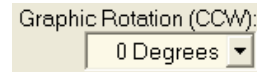
#### 2.5.4.8 Text / Graphic Gap – Text Field

This applies a separation of up to 5” between the Text and Graphic stamps.

A control box with the label "Text/Graphic Gap:" and a text field containing "1.00".

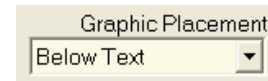
#### 2.5.4.9 Graphic Rotation – Pull down

Allows the user to rotate (counter clockwise) the graphic portion of their stamp in 45° increments. User may also click on the “Logo” in the Stamp Placement area to cycle through the Graphic Rotation options.

A control box with the label "Graphic Rotation (CCW):" and a pull-down menu showing "0 Degrees".

#### 2.5.4.10 Graphic Placement – Pull down

Determines the placement of the graphic in relation to the applied text. This is ignored if text is not applied.

A control box with the label "Graphic Placement" and a pull-down menu showing "Below Text".

#### 2.5.4.11 Merge Type – Pull down

##### A. Opaque

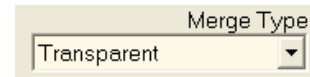
This option displays the stamp on top of the image. The background of the stamp is white and will obscure some image.

##### B. Transparent

This option overlays the stamp on top of the image. The background of the stamp is transparent.

##### C. Invert

This option displays the stamp on top of the image. Colors are inverted where the data intersects

A control box with the label "Merge Type" and a pull-down menu showing "Transparent".

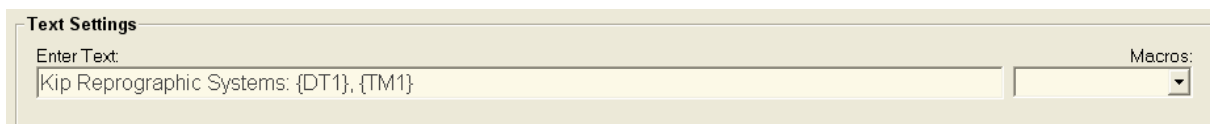
#### 2.5.4.12 Screening – Pull down

This allows the user to define the screen level (shading) of the stamp using pre-set screening percentages.

A control box with the label "Screening" and a pull-down menu showing "100.000% Fill".

#### 2.5.4.13 Text Settings Area

Enter the text of the stamp. Add a Macro within the text if desired.

A control box titled "Text Settings" containing a text field with "Enter Text:" and "Kip Reprographic Systems: {DT1}, {TM1}" and a pull-down menu labeled "Macros:".

#### 2.5.4.14 Macro – Pull down Menu

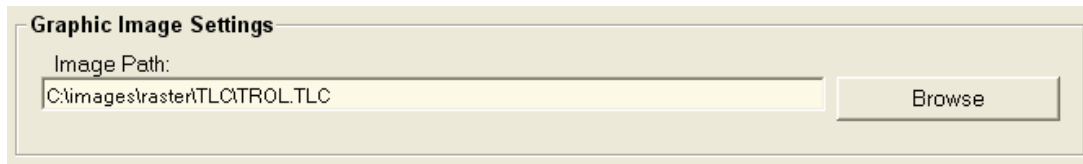
Choose a macro from the list to apply information at print time, such as Requester name, time of day, etc.

#### 2.5.4.15 Graphic Image Settings Area

This displays the path to your selected graphic image. The path is relative to the user's workstation.

**NOTE:**

- 1) The image file must also reside on the KIP IPS, it may be pushed to the IPS from the workstation.
- 2) Or you may apply the stamp to document with a file label called "**Savestamp.tif**". It will then automatically be copied from the workstation to the KIP IPS.



#### 2.5.4.16 Preview Stamp

Click to see the configured Stamp settings in the viewer. Use CTRL+TAB to cycle through text and image.



### 2.5.5 Fold

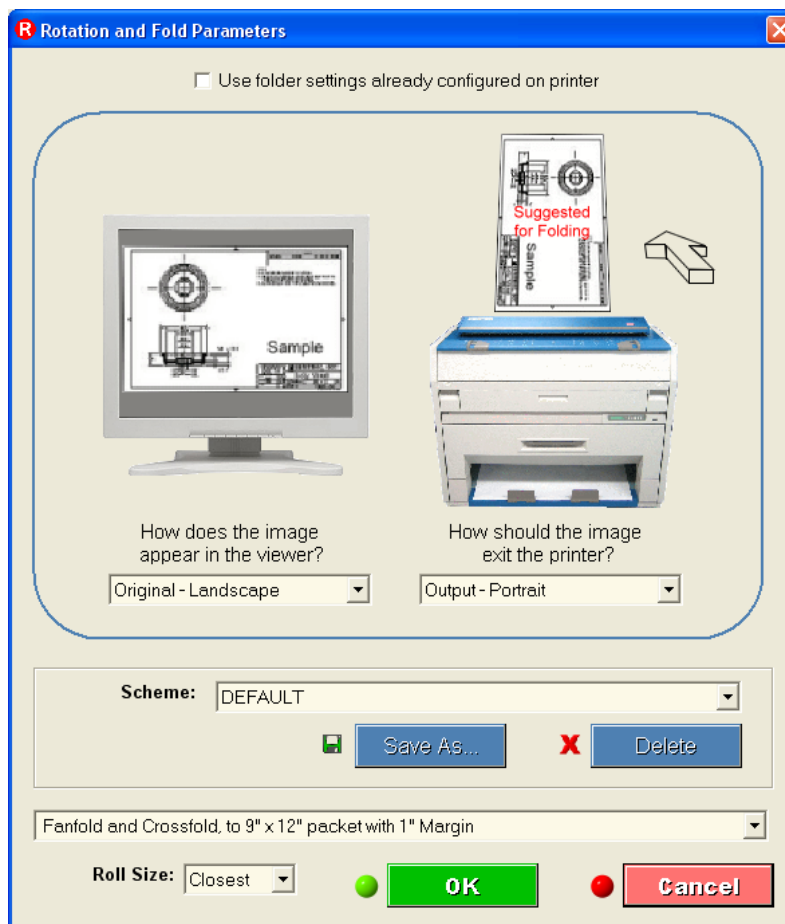
Request allows the users to create Fold and Rotate schemes. These folding features can be used with the KIPFold folding systems. The Request program reads settings from the printer (*presets.ini* file in the LOGDIR folder) and displays the folding choices in a dropdown menu.



Folding can be accomplished with two methods:

- Allow the printer to determine the rotation and pattern
- Override the printer settings to have rotation and patterns set in the Request.

The choice between the two methods depends on the installation environment. That is if a small number of document sizes are to be folded with a standard set for width, length and orientation it is simplest to have the printer control the folding (requires setup by qualified technician) If the documents can vary with orientation, then folding must be configured in request and printed / folded in this manner. You can also override method A with B at any time for greater flexibility.



## (Method A)

### 2.5.5.1 Use Folder Settings...on Printer

Use this button to enable the printer to determine the orientation and fold pattern.

☐ Use folder settings already configured on printer

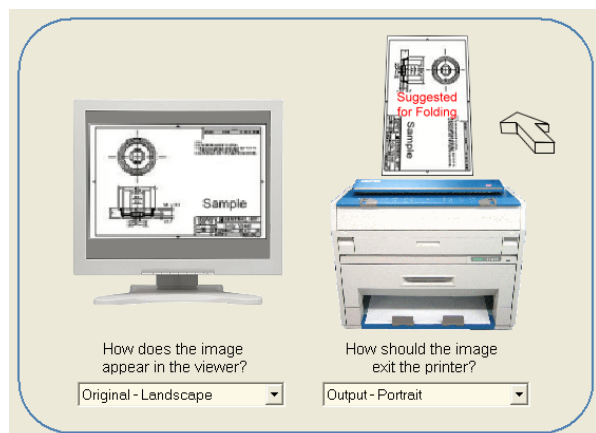
## (Method B)

### 2.5.5.2 Orientation

This allows the user to select the file orientation and output orientation of the fold. The output is important due to the fact that folders require the title block in a particular corner. This is dependent on the model of folder.

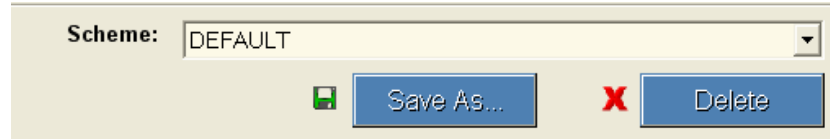
Left Side is for the file

Right Side for Output



### 2.5.5.3 Scheme

Once a satisfactory setting is achieved, it can be saved as a scheme for actual use. Schemes not required can be removed as well.



### 2.5.5.4 Fold Patterns (available)

The Request program reads settings on the printer (*presets.ini* file in the LOGDIR folder) and displays the folding patterns available in a dropdown menu. These pattern types are configurable by the technician.

### 2.5.5.5 Roll Size

Allows roll selection to be automatic (closet) or precise (exact). Please note that some images may need to be exact or the correct fold pattern will not be attained. If Exact is chosen then the media width of the file must also be installed in the printer.

### 2.5.5.6 Matrix Folding

KIP Request also incorporates Matrix Folding. Users can select different folding schemes for individual documents within a set. (see 2.3.5)

## 2.5.6 Header Label

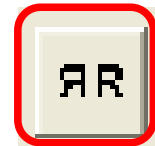
A header can be placed on the top or bottom of each print. This can allow for easy document identification of the prints. Information from the Key Job Settings (Requester and Job Number) are included as well as the file name, date and time of printing



Requester:	John User
Job Number:	Project 123-456-789 0

## 2.5.7 Mirror

Mirror the image on the print.



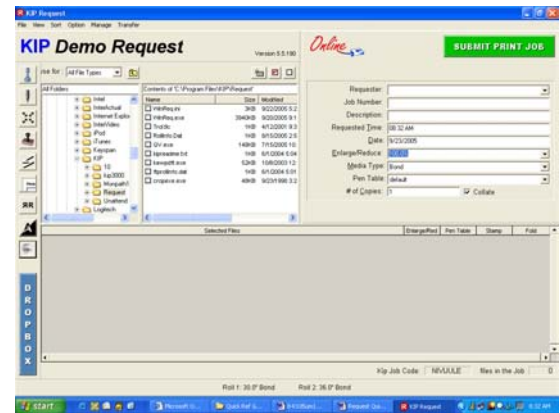
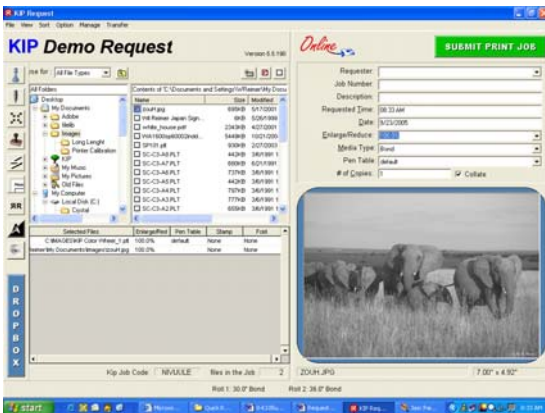
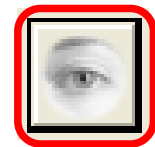
## 2.5.8 Invert

Inverts the image on the print(s).  
( makes black area white and a white area black)



## 2.5.9 Quick View

Click on this button to display a viewer in the bottom right of the main Screen  
Click again to remove the viewer. ( click on a file , then click inside viewer box to see the image. )



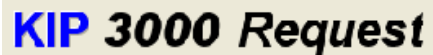
## 2.5.10 Manage

Press this button to manage the print queue. Password required.




## 2.6 Printer Selection

The label or name of the printer can be used to send jobs to multiple KIP printers on the network if so configured. Click on the name to select the printer to send the job to. Printer status will also be displayed in the lower area of the main screen (see Printer information 2.7).

A yellow rectangular button with the text "KIP 3000 Request" in blue and black font.

## 2.7 Printer Information

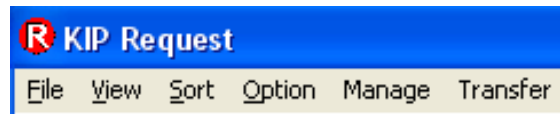
Roll status, cover or door opened, toner requirement, misfeeds, and other selected printer status' are displayed in the lower center of the main screen.

A yellow rectangular box containing two labels: "Roll 1: 24.0" Bond" and "Roll 2: 36.0" Bond".

Roll 1: 24.0" Bond	Roll 2: 36.0" Bond
--------------------	--------------------

## 2.8 Menu

Like most other Windows based application a menu is located at the upper left of the main screen. This allows for "menu text" based configurations and settings. Most functions are discussed in other sections of the guide.



### 2.8.1 File

#### 2.8.1.1 Submit Job

Submits a job after files selected

#### 2.8.1.2 Exit

Exits Request software

### 2.8.2 View

#### 2.8.2.1 Refresh

This updates the directory and file information in the main screen.

#### 2.8.2.2 Quick view

Allows a view of the selected image with grayscales (see Quick View 2.5.8)  
There are no panning or enlarge view tools in this viewer.

#### 2.8.2.3 View thumbnail

This allows a thumbnail view of a selected image in the lower right corner of the main screen.



#### 2.8.2.4 View selected image

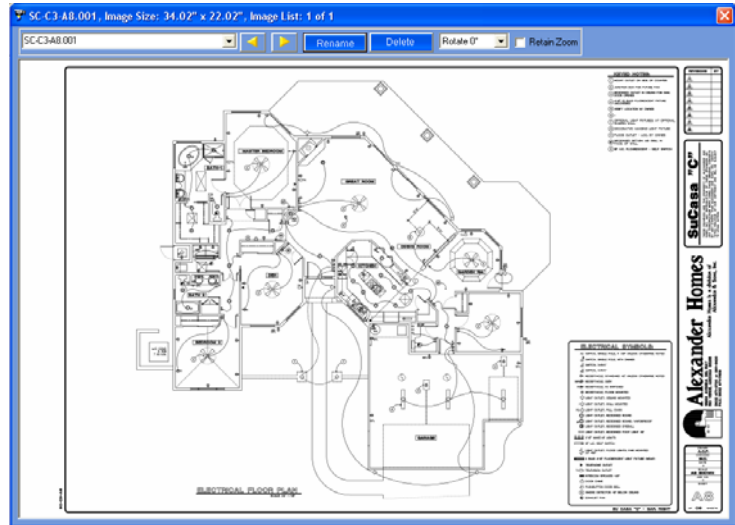
This allows the customer to view any accepted raster or vector file that is highlighted.

(NOTE: .CGM files are not viewable from this feature.)

This viewer allows panning and other viewing tools.

Notes:

- Zoom into areas of by holding down the right mouse button and drawing a zoom area to be seen in red.
- Click on any area to zoom back out



#### 2.8.2.5 View all tagged images

Opens all tagged files in the viewer noted. Use the “arrows” to view the next document or the dropdown to view the selected document.

#### 2.8.2.6 Convert all tagged to...

This will convert the selected file(s) to any of the accepted raster formats. (TIFF Group 4, CALS Group 4, .PCX, .TLC, .CIT or .PDF) You will also be prompted as to the placement of the files once converted.

### 2.8.3 Sort

This menu is the same as File Order in 2.3.6. Please see this section for details.

### 2.8.4 Option

#### 2.8.4.1 Save Current Job

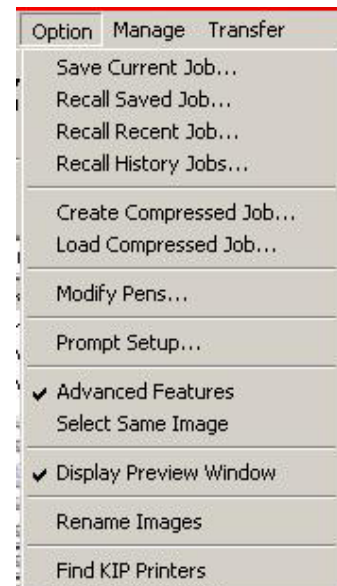
This allows the user to save the job file list and the applied settings. The complete name (including path information) can use up to 256 characters (Does not save the files, only the file settings).

#### 2.8.4.2 Recall Saved Job

Allows the customer to recall and reprint a job that has been previously saved.

#### 2.8.4.3 Recall Recent Job

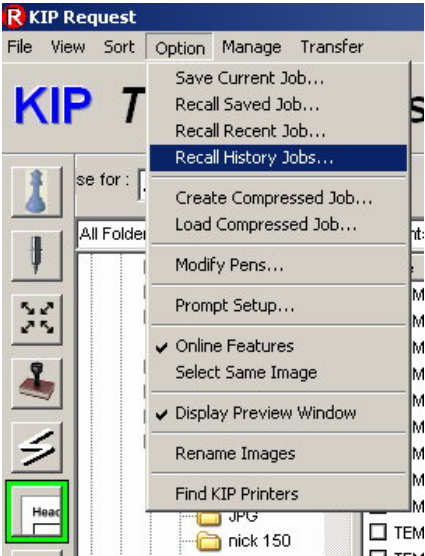
Request saves the job information for the last 15 Requested jobs. RECALL RECENT JOB allows the user to recall one of these jobs.



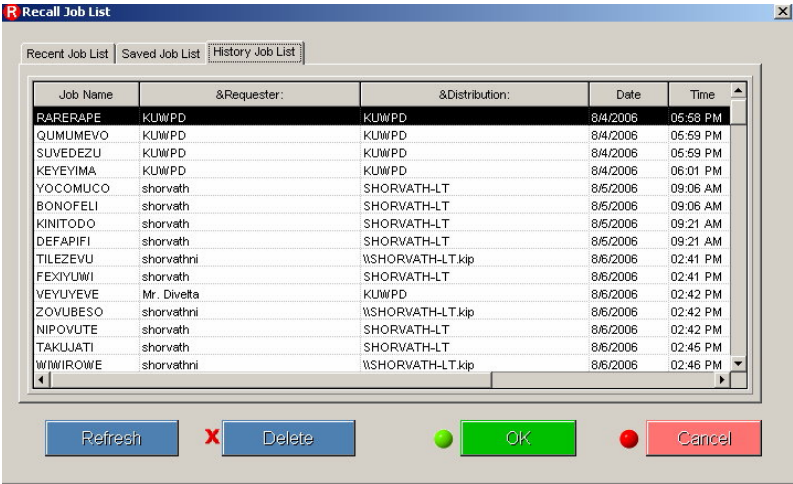
2.8.4.4 Recall History Jobs

Job History can be used to call up and print jobs that were previously printed. By selecting a job from the Job History list, the job can be changed and resubmitted for printing.

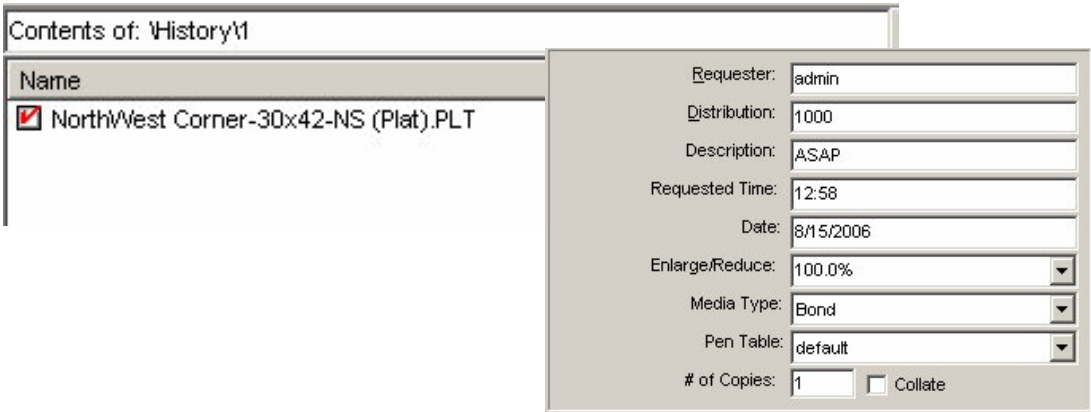
- 1. With Request open go to Option and select “Recall History Jobs”



- 2. The following window will open up



- 3. From this list of jobs that are saved in the History list choose the desired job to reprint. The chosen job will be loaded into the selected job area and all prior settings will also be loaded.



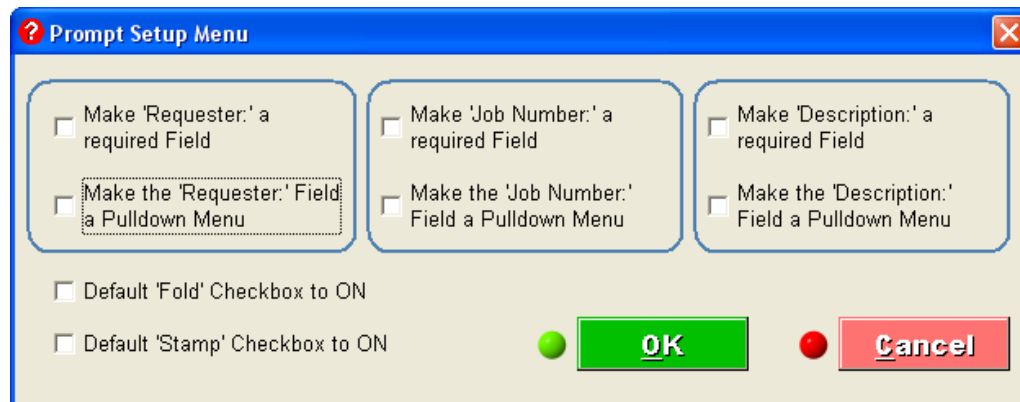
4. At this point the selected job can be sent to the printer to be reprinted or files can be added to it creating a new job. Additional settings may also be applied and or changed.
5. The new job with all of its settings will be added to the Job History folder for latter use.

#### 2.8.4.5 Modify Pens (Plot file setup)

Allows the user to apply and modify the settings of vector plot files. Users can override files' pen table and screening information. Plot File Setup also lets the user apply borders, modify halftone settings, dither patterns, and more. Please see 2.5. and 2.5.2 for greater details

#### 2.8.4.6 Prompt Setup

Prompt Setup lets the Administrator define mandatory settings before a job can be submitted.



#### Making Fields Required

When a field is required, the user must enter data before the job will be submitted.

#### Making Pull-Down Menus

When checked, the user must choose from an established list of field entries. Normally, users cannot add a pull down entry without knowing the Request Master Password. Each pull down entry can also be password protected, so only the specific users can select specific entries.

#### Default 'Fold' ON

Checking this box will apply Folding feature as soon as Request is opened.

#### Default Stamp ON

Checking this box will apply Stamping feature as soon as Request is opened.

#### 2.8.4.7 Advanced

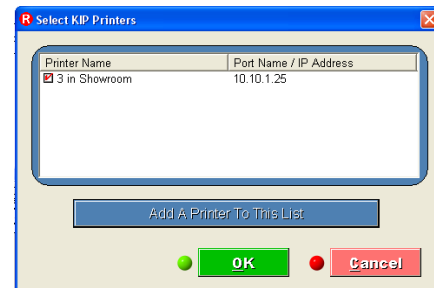
Advanced features can be turned 'On' or 'Off' by clicking on this function.

Features are:

1. Selecting the same file multiple times from within in the same folder.
2. Enlarge/Reduce on a per file basis.
3. Manual image placement.
4. Load/Save compressed jobs.

#### 2.8.4.8 Find KIP Printers

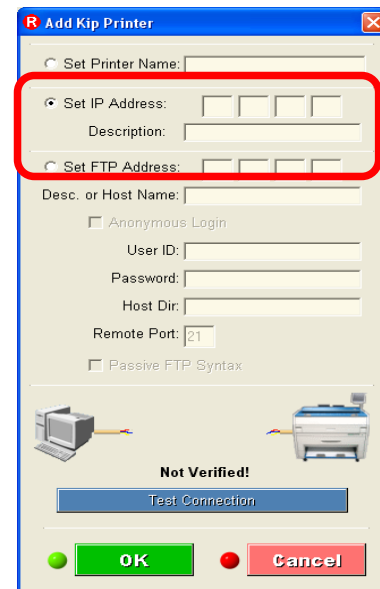
This menu allows users to attach to KIP Printers or add a new KIP Printer. **FIND KIP PRINTERS** will automatically search for shared KIP Printers installed, and will add them to the list of available printers. Simply check the box next to the printers to which you would like to submit prints. Click OK to finish.



#### Add a Printer

There are two methods to adding a printer to the list, by IP address or IPS name. We recommend IP address only for the KIP 3000. Please contact the Network Administrator for the IP address of your KIP 3000.

Details of the settings / configuration are noted in Section 5 - Request Installation.



#### 2.8.5 Manage

##### View the Print Queue

From the MANAGE Menu, users can VIEW THE SELECTED PRINTER'S QUEUE. This option will display the contents of the Printer Queue. Users will be able to see the main IPS screen, but will not be able to manipulate it in any way.

##### Manage the Print Queue

Users can also MANAGE THE KIP PRINT QUEUE if they know the Request Master Password.

NOTE: A user who can MANAGE the queue is able to manipulate the system!

##### Push File to IPS

This has been incorporated for ease of use for making file updates to the KIP internal controller. This feature works with IP based printers only. Upon clicking this feature, the user is prompted with an explorer window to choose and pick a file meant to be placed on the KIP controller. For example, if the user was making an update to the IPS software with a new executable, one would select the file at the 'Requester' workstation. Upon selecting and clicking ok, the new executable would be copied into 'C:\Monpath1\Installers' on the KIP IPS. An administrator would then use the management capability of Request to open up the print queue. Upon opening Windows explorer on the KIP IPS, the administrator could browse to the C:\Monpath1\Installers folder and perform the required upgrade. This function has mainly been established for ease of use by any administrator to make software upgrades.

## 2.8.6 Transfer

See Section 3.0 for Scan Retrieval / Deletion .

Upload Settings is a network administrator function.

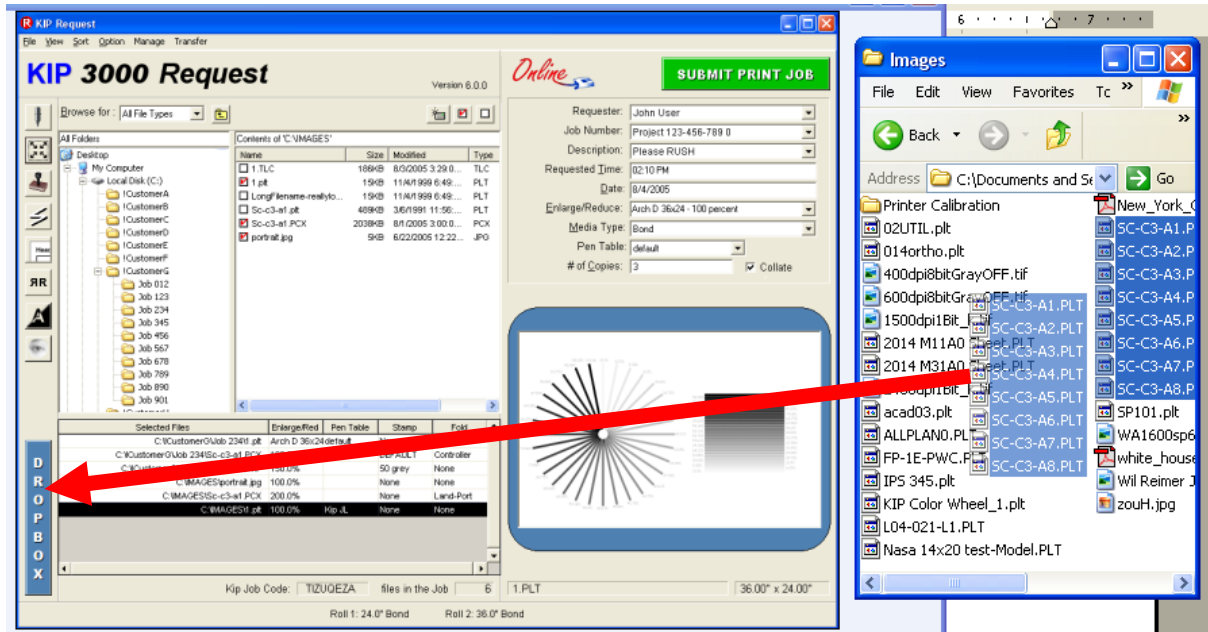
See Admin Service Function )

Transfer
Transfer Current Scan Directory...
Delete Current Scan Directory...
Upload settings to printer

## 2.9 DropBox

The DropBox can be used to select files rather than use the Folder Select (2.1) and File Select (2.2). This region allows “Drag and drop” functionality.

- 1) Use Windows Explorer to locate the printable files (or other file viewing utility).
- 2) Select the files using Windows conventions and then drag them with the mouse and drop the files into the DropBox.



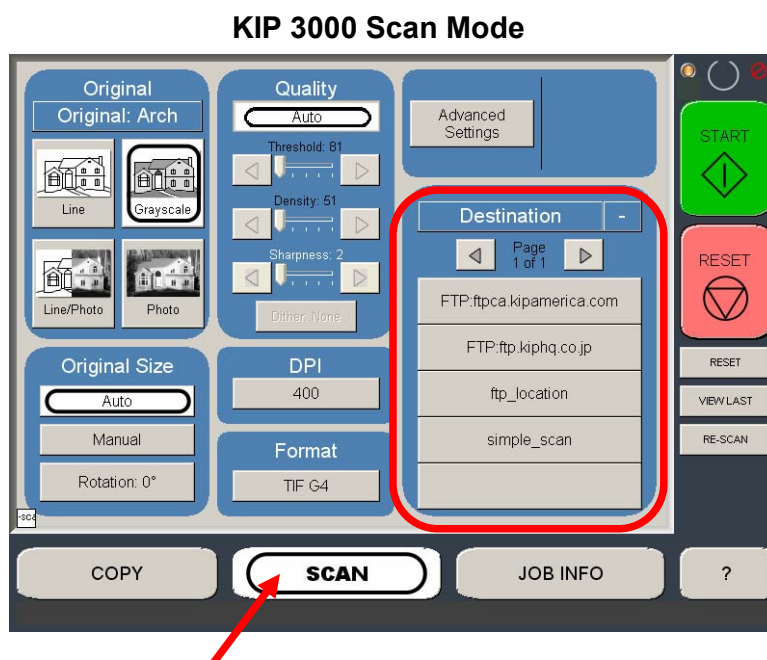
- 3) The files selected will now appear in the Job List region.

## 3.0 Retrieve Scans

### 3.1 Mailbox Retrieval

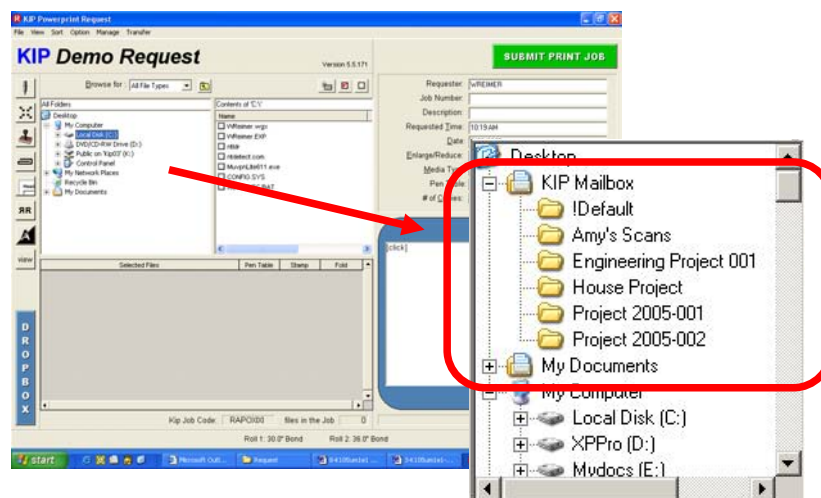
Documents scanned on the KIP 3000 can be retrieved with the KIP Request software. These are documents scanned into mailboxes on the IPS.

The mailboxes can be created and selected in the KIP 3000 Scan Mode. Please see the Scan Section for greater detail on the use.



To retrieve documents that are scanned into a mailbox use Request in the following manner:

- 1) Use the Folder selection area to browse to KIP Mail Box located under "Desktop" (on the local drive)

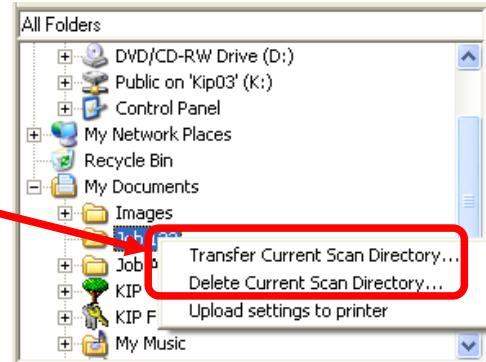


- 2) Click on KIP Mailbox and listed are all the KIP 3000 Mail boxes on the KIP 3000 IPS.

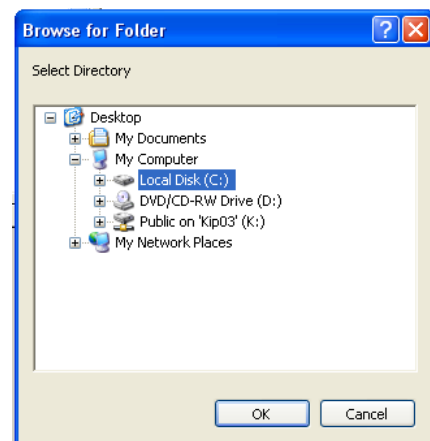
Note: FTP locations are not shown here, only IPS mailboxes!

- 3) Click on the mailbox (folder) that contains the scanned images that are required.

- 4) Right Click with the mouse to  
"Transfer Current Scan Directory"



- 5) A screen will appear to allow the Mailbox directory to copy scanned files to local drives or networked storage locations.



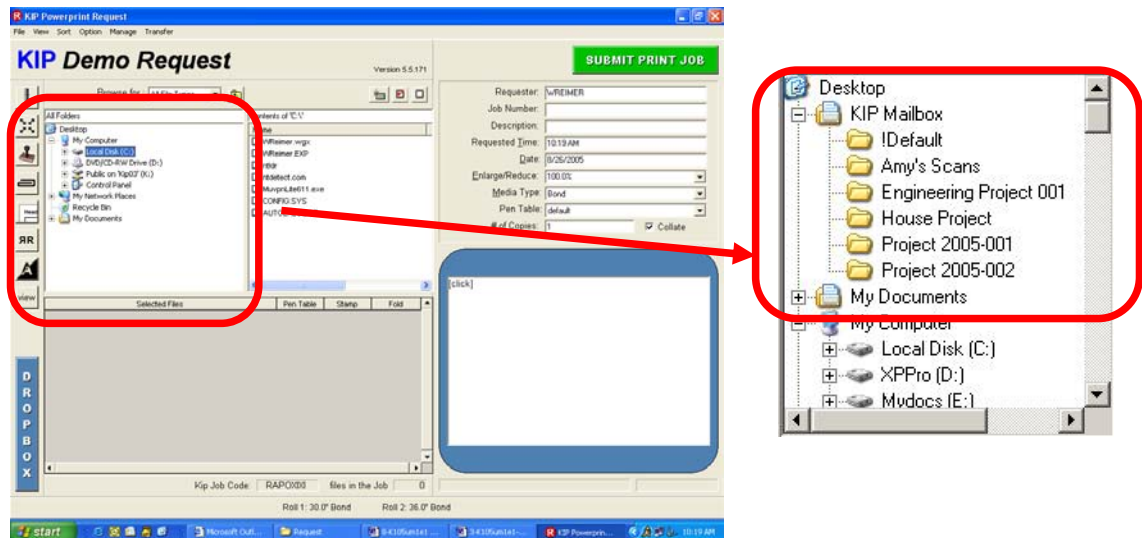
- 6) After you have copied the files it will ask if you wish to delete the folder on the IPS. This can be performed at this time if so desired.
- 7) After the folder with the scanned images has been copied other tasks can be performed with KIP applications and other third party applications:
  - a) Database the images
  - b) Image editing
  - c) KIP Request
  - d) Any other image tools applications



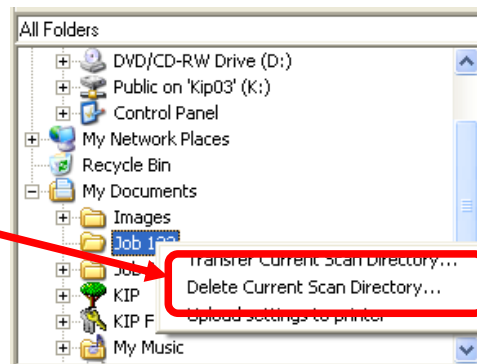
## 3.2 Mailbox File Deletion

To remove a file from within a Mail box, use KIP Request in the following manner:

- 1) Use the Folder selection area to browse to KIP Mailbox on the local drive



- 2) Click on KIP Mailbox and the list of ALL the KIP 3000 Mail boxes on the KIP 3000 IPS will become visible.
- 3) Click on the mailbox (folder) that contains the scanned images that are no longer required.
- 4) Right Click with the mouse to "Delete Current Scan Directory"



- 5) A "Delete Folder" confirmation screen will appear to confirm the command. This will remove all of the files within the folder and leave the folder on the system.

**ONCE DELETED, FILES ARE PERMANENTLY REMOVED!**



## 4.0 KIP 3000 Copier Configurations

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Please see the “Administrator/Service Functions of the KIP 3000” document to add and control these features or functions!

# 5.0 Request Installation

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## 5.1 Installation

Two methods are available to install the KIP Request software on a Windows workstation.

- 1) Use an installed and configured KIP Windows Driver to gain access to the KIP Request Installer.
- 2) Use the KIP Installation CD provided with the KIP 3000 (Installation software should also be located on your local KIP companies web site if this CD is not available, Please ensure Installer version is correct for your KIP 3000 system!)

### 5.1.1 Requirements

Workstation operation systems can be:

Windows 2000

Windows XP

Administrator access is also required to install the software.

### 5.1.2 Windows Driver Access

- 1) Click on "Start", then "Printers and Fax", and locate the KIP Windows print Driver in the list of installed printers. If you do not see a KIP printer you should now use the CD Installation.
- 2) Right click on the driver and select "Properties".
- 3) On the "Device Settings" tab will be an "INSTALL KIP REQUEST" Button.
- 4) Double click on the button and follow the prompts. Please accept the default settings for easy of configuration.

### 5.1.3 CD Installation

- 1) Locate the KIP Software CD and place in disk drive.
- 2) Browse CD for INSTALLATION and KIP Request.
- 3) Follow the prompts and select all defaults settings for easy of configuration.

### 5.1.4 First Time Run

After the software installation is complete, the application can be run from the Desktop (icon shown) or from the "Start," then "All Programs," then "KIP Programs," KIP Request . It may take several minutes for the first time launch as it attempts to find configured KIP devices. (see 5.2 Connection to KIP Printers)



#### 5.1.4.1 Master Password

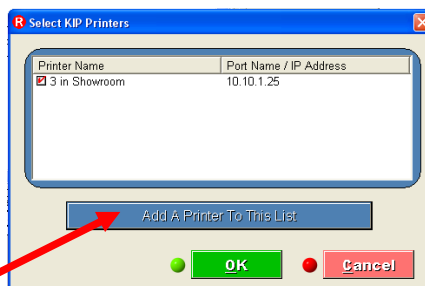
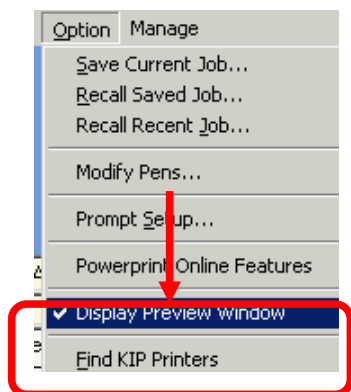
Upon starting Request for the first time it will ask for a MASTER PASSWORD. This password allows access to the Prompt Settings (accounting) configurations. This password will be used by the department manager or network administrator. Please key in a password noting that it will be required in the future. Once set the password can not be changed.

## 5.2 Connection to KIP Printers

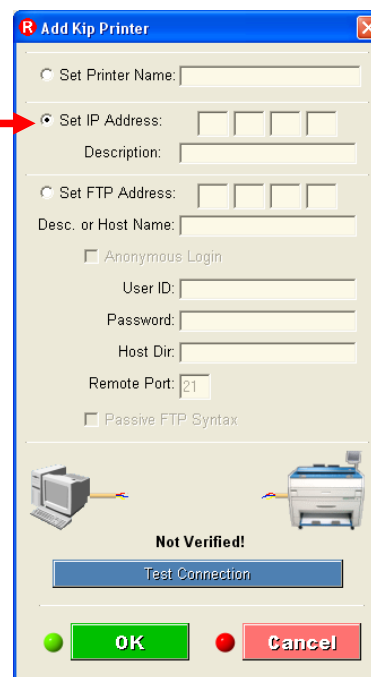
Once the application is installed and run for the first time, it is time to connect to a KIP device. Please ensure that the KIP printer is plugged in and turned on, and the address IP settings configured (see Section 11 Connectivity).

### 5.2.3 Find KIP Printers

Using the upper menu, select “Option” and then “Find KIP Printers”.



- 1) From the FIND KIP PRINTERS window, click ADD A PRINTER TO THIS LIST.
- 2) Select SET IP ADDRESS and enter the IP Address of the KIP IPS.
- 3) In the “Description” field, key in a friendly Printer Name that the User can recognize (model number such as “3000”).
- 4) TEST the connection.



Note : If the IP address is invalid, the following message is seen.



- 5) Click OK to return to the SELECT PRINTERS screen and ensure that the printer is selected with a check mark.
- 6) Click OK again to return to Request Screen.
- 7) The roll information should now be seen in the lower main screen as well to confirm connection.

## 5.3 Other Installation Considerations

### 5.3.1 Prompt Setup

If Accounting is desired please see 2.8.4.5 in this section of the User guide. This also requires that the MASTER PASSWORD be configured.

### 5.3.2 Pen Tables

- 1) Pen widths and pages sizing are usually part of today's plot files. If older languages are used please ensure that a pen table is created for the installation requirements. Please see 2.5.1 in this section of the User Guide.
- 2) Raster and Hybrid files are quite common. Please see the "Advanced" button under "Pen Table" for any customization required. Please see 2.5.2 in this section of the User Guide. The final result on the print may be your best guide when establishing desired settings.

### 5.3.3 Advanced Configuration and Settings

The KIP Request Application is customizable. For advanced customizations please see the Appendix 6.0 - INI Configuration. Please note that any syntax errors in the INI will cause issue with KIP Request. Modification of the INI is to be performed with great caution.

## 6. 0 Appendix

### 6.1 Folding - Technical description

Fold parameters are assigned similar to Stamp (.STP) files and Pen Table (.PEN) files as explained in the KIP Job Ticket Integration Information. In the job ticket folder, there is a job sub-folder containing text files that refer to the .STP, .PEN files for stamping and pen tables, there is now a new file referred to as a .FLD file that contains fold parameters.

In Stamping a particular image, the job sub-folder must contain files such as 0000.SSP which contains the name of the .STP file associated with stamping the first image in the job. The content of the .SSP file is actually the name of the .STP file (also in the job sub-folder) to be used by the Unattend program in stamping a particular image. Subsequent images are stamped by using 0001.SSP, 0002.SSP to stamp image number 2 and 3 in the job. The numbering refers to the order of the documents in the .KIP ASCII Job Ticket. This method is duplicated for setting a fold parameter to work with image number 1, using 0000.FLP, then image 2 using 0001.FLD etc.

Action	Actual File	Reference File:
Stamp	.STP, default.stp, not for construction.stp, etc.	0000.SSP, 0001.SSP, 0002. SSP containing a .STP filename to apply to document 1, 2, 3 as listed in .KIP ASCII Job Ticket.
Pen Table	.PEN, default.pen, etc.	0000.PPN, 0001.PPN, 0002.PPN referring to .PEN filename to apply to document 1, 2, 3 as listed in .KIP ASCII Job Ticket
Fold	.FLD, default.fld, 36x24.fld, etc.	0000.FLP, 0001. FLP, 0002. FLP referring to .FLD filename to apply to document 1, 2, 3 as listed in .KIP ASCII Job Ticket

.FLD File Contents (sample)

```
[KipFolderSettings Ver. 1.0]
FolderOriginalOrientation=0
FolderOutputOrientation=1
FolderRollSize=0
FolderPreset=2
```

Definitions of the .FLD

FolderOriginalOrientation

Defined as landscape =0, portrait=1, reverse landscape=2, reverse portrait=3. The PPT Unattend uses this information combined with "FolderOutputOrientation" to calculate a final rotation parameter used in creation of the TIF Pack bit file before printing. Note: When using the KIP Folder all images must print in Portrait mode with title block exiting the printer last in order to fold properly and finish with the title block showing.

### FolderOutputOrientation

Defined as landscape =0, portrait=1, reverse landscape=2, reverse portrait=3. The PPT Unattend uses this information combined with "FolderOriginalOrientation" to calculate a final rotation parameter used in creation of the TIF Pack bit file before printing. Note: When using the KIP Folder all images must print in Portrait mode with title block exiting the printer last in order to fold properly and finish with the title block showing.

### FolderRollSize

This is used to lock printing to a specific roll size used in folding this document. Valid values are 0=36" roll, 1=34", 2=30", 3=24", 4=22", 5=18", 6=17", 7=12", 8=11", 9=8.5" or the word "Closest". If using a value 0-9, the controller will prompt the user for this media size before continuing to print. This will stop the printer and other jobs from printing until the user inserts this size of media. If "Closest" is used, the Controller will use the media that fits the image the best after applying the rotation specified. Note: If using Force Size feature of the Job Ticket you must also use the same Roll Size for Force Size in FolderRollSize of the .FLD file.

### FolderPreset=2

This refers to the preset in the Kipfoldpreset.ini. The settings defining packet size, margin, and fan and cross fold settings are set in the kipfoldpreset.ini by the technician at the controller. As a feature of Request 5 SR3, user can display the names of these settings in the new Rotate / Fold menus. The Request obtains a copy of the kipfoldpreset.ini from the current Log Directory (Log Directory as set in Unattend, Configuration, Miscellaneous Setup) named "presets.ini".

## 6.2 INI Configuration

Custom Settings Fields in the

Request Configuration Settings File: *Winreq.ini*

[ Location: C:\PROGRAM FILES\WINDOWS REQUEST\WINREQ.INI ]

### [GENERAL]

**MultipleRequests=(True, False or Clear, Default=Clear)**

Using 'Clear', clears any previous entries from 'Requester', 'Job number' and 'description' fields each time *Request* software is closed and re-started.

Using False Closes the app. after each submission.

**LocalRequest=(0, 1, Default =0)**

'0' is 'false' and '1' is true.

'LocalRequest=1' is used when the Request app is run on the IPS.

Set to 0 for failsafe operation

**SelectMultiple=(0, 1, Default =1)**

'1' – allows users to add the same name file up to 9 times in the same job.

**SaveRequest=(0, 1, Default =1)**

'1' - Job submitted using Request are saved in 'Recall folder'

'0' – no jobs are saved in recall folder.

**PrintView=(0, 1, Default =1)**

Printview is used to view the output on the screen as before submitting it to the printer. This is different than right clicking on the file and using 'view selected image' as Printview uses information from 'stamp', 'rotate', 'invert' and 'mirror' selection before making an output for viewing.

'1' – Allows use of printview capability

'0' – Displays the file but does not use the fields as described above.

**DisplayPreviewWindow=(0, 1, Default =1)**

'1' – preview window is available for looking at images before submission

'0' – removes the preview window from requester screen

**OnlineFeatures=(0, 1, Default =1)**

'1' – allows usage of advanced features.

'0' – disables usage of advanced features.

**UnifiedAccounting=(0, 1, Default =0)**

'1' – allows usage of unified accounting.

'0' – disables usage of unified accounting.

**PreviousSort=2**

Reads and displays information about how files were sorted inside Requester window. Files can be sorted by their names (ascending, descending), by size or by modified date. The value here is used for troubleshooting purposes.

**FileType=8**

This displays how many entries that are available under 'Browse for' section inside Request software. For diagnostic purposes only.

**StatusDelay=30**

Sets time in seconds that Request software will wait to read status information (roll information, error condition) from the printer.

**PenDir=C:\Program Files\Windows Request\Pens\**

Records and displays location of the 'Pen table' being used for printing.

**LastPen=default.Pen**

Records and displays the last pen used for file submission

**LastDir=C:\IMAGES**

Records and displays the last folder where the files were printed from.

**DefaultRequester=%UserName**

Shown here using an environment variable called UserName. You may also enter information after the "=" that will be displayed in the REQUESTER field each time the Software is started. Up to 30 characters may be used.

**DefaultDistribution=%Distribution**

Shown here using an environment variable called Distribution. You may also enter information after the "=" that will be displayed in the DISTRIBUTION field each time the Software is started. Up to 30 characters may be used.

**DefaultDescription=%Description**

Shown here using an environment variable called Description. You may also enter information after the "=" that will be displayed in the DESCRIPTION field each time the Software is started. Up to 30 characters may be used.

**Prompt=Distribution**

This line allows the user to customize the Distribution field name.

**RequesterPrompt=Requester**

This line allows the user to customize the Requester field name.

**TextSize=0.10"**

A KIP text header will be applied to raw files dropped into a monitor path. This value determines the size of the header, in inches.

**TextPos=0**

A KIP text header will be applied to raw files dropped into a monitor path. This value determines whether the header appears on the Leading Edge (0), or Trailing Edge (1).

The next section contains the paths to the internal programs that Unattend uses to detect, convert, merge, and move files. If the required programs are not in these default locations, a Runtime Error 53 (File Not Found) will occur.

**ExportExe=C:\PROGRAMS\DS\MTP.EXE****ViewExe=C:\Programs\ultrav.exe****RemoteControlExe=C:\Programs\vncviewer.exe****Raster2Tlc=C:\Programs\DS\MTF.Exe****Vector2Tlc=C:\Programs\DS\MH2.Exe****CropExe=C:\Programs\Cropexe.Exe****TlcMergeExe=C:\Programs\DS\MI.exe****TiffViewer=**



**AutoRecognize=c:\programs\DS\MAD.exe**  
**PowerScriptExe=c:\programs\DS\pscript.exe**

**KipPortExe=C:\Programs\KawPDFT.Exe**

**RecallDir=C:\Programs\Recall**

**TempDir=C:\Programs\TR**

**MiniSize=1000,720**

**Units=ENGLISH** (English or Metric units)

**AddHpglCmd=**

Values are software switches, used to apply custom commands to HPGL/2 files. This line may contain one switch, multiple switches, or none. Some switches are specific to certain versions; some are specific to certain printer models. Switches are case-sensitive. Some switches have a value after the switch, separated by a space. Multiple switches are separated by a space. You may see some of the following:

- D 300 Forces raster images to 300 DPI, to compensate for raster images looking 'squished' or out of place on some files created with HP drivers.
- G Affects grayscale level of embedded raster images. This feature is now built into the Request Pen Table. Value (1-100)
- Y KIP 8000-specific.
- Z KIP 8000-specific.

An example of how multiple switches might appear in the line:  
AddHpglCmd=-D 300 -G 50

**DebugVal=999**

Used for diagnostic purposes only.

**MP=à'þ àf,,—...000000**

The encrypted master password as set by the installer

**ST=00**

This next section (MultiplePrinters) should not be configured outside of the GUI of Request

**[MultiplePrinters]**

**RequestDir0=c:\monpath1\request**  
**StatusDir0=C:\monpath1\logdir**  
**MachineType0=3000**

KIP IPS has at least one “Monitor Path”, usually on its own c:\ drive. The KIP IPS can monitor up to 20 different paths.

Prior to the port based printing (5), this was the method for setting up multiple printers for the requester. It allows the user to set the paths for the Request software’s communicate directly with the Unattend software. This can either be drive letter mapping, or UNC naming.

The Requestdir should match the drive and directory set on the Controller in the Unattend, Configuration, Set Monitor Paths, Request Monitor Path. The Request software will create a subdirectory here for each request and place all the relevant files for the print job in that unique directory.

The Statusdir should match the drive and directory set on the controller in the Unattend, Configuration, Miscellaneous, Log Directory. The Request software will look to this directory for the updated paper and error information created by the Unattend software at the Controller. The Log directory is read each time the KIP Icon / title bar on the Request menu is selected with the mouse.

The Machinetype allows the user to set a name for their printer. It does not have to match the actual printer they own. For instance the user could give the printer a personal name like “BOB”. This would be displayed on the KIP icon/title bar.

Additional KIP Printers.

Users may create additional groups of printers to select from directly underneath the current paths. For example:

**[MultiplePrinters]**

**RequestDir0=C:\Monpath1\Request**  
**StatusDir0=C:\Monpath1\LogDir**  
**MachineType0=6000**  
**RequestDir1=F:\abc\Request**  
**StatusDir1=F:\abc\LogDir**  
**MachineType1=3000 UL**  
**RequestDir2=\\40Server\8000\Request**  
**StatusDir2=\\40Sever\8000\LogDir**  
**MachineType2=8000**

In the Request software users can change from one printer to the next by selecting the KIP icon / title bar at the top of the Request interface. This will switch from one printer to the next and update the roll information at the bottom of the Request interface.

**[KipPortPrinters]**  
**PrinterName1=~KIP 3000**

**[ConvertTypes]**  
**Type0=Group4 TIF R**  
**Type1=Group4 CAL R**  
**Type2=ZSoft PCX R**  
**Type3=HPGL PLT V**  
**Type4=KIP TLC R**  
**Type5=Group4 GP4 R**  
**Type6=Postscript PS V**  
**Type7=Postscript EPS V**  
**Type8=Adobe PDF V**  
**Type9=JPEG JPG R**  
**Type10=Unknown 0?? V**  
**Type11=Intergraph CIT R**  
**Type12=ASCII xxx A**

*(NOTE: Type 10, where 0?? is located, represents all files that begin in 0 that are valid Vector files. For example Microstation I-Plot files with .000 extensions.)*

*(NOTE: Type12. In an actual .ini file, the actual file extension would be entered. For example: Type12=ASCII INI A ; Type13=ASCII DAT A ; Type14=ASCII LOG A, etc.)*

**[PaperTypes]** Additional media types can be added but they must also be added into the IPS INI  
**Paper0=Bond**  
**Paper1=Vellum**  
**Paper2=Film**  
**Paper3=OnHold**

**[PullDownDistribution]**  
ø ¨ •àf,,—...~p™†Š ¨ ^ ¨ %o ¨ ýûýÛÝ>šŽœœà‘p ¨ •àf,,—  
...~p™†Š ¨ ^ ¨ %o ¨ ýûýÛÝ>šŽœœ

**[PullDownRequester]**

**[PullDownDescription]**  
”Ô ¨ Ô•àf,,—...~p™†Š ¨ ^ ¨ %o ¨ ýûýÛÝ>šŽœœà‘p ¨ •àf,,—  
...~p™†Š ¨ ^ ¨ %o ¨ ýûýÛÝ>šŽœœ

**[OutputTypes]**  
**Type0=TLC Tiled Format -t**  
**Type1=CAL CALS Group 4 -C**  
**Type2=TIF TIFF Group 4 -T**  
**Type3=PCX Monochrome -c**  
**Type4=CIT Intergraph -G**  
**Type5=PDF Adobe -g**

## 6.3 Creating Productivity Reports

The KIP Productivity Reporting Package (PRP) is designed to use information gathered from accounting fields in KIP Request along with various applications that have been linked to KIP Request such as:

- KIP Request
- AutoCAD
- KIP 3000 Software
- KIP PrintNet
- KIP Copymaker (for KIP 2000 series scanners)

By sharing accounting data generated from KIP Request, users have the ability to link multiple applications using the same accounting rules. This system allows managers to generate reports that have valuable accounting information and can be manipulated by the user to get the desired output including the following:

- KIP productivity reporting package generates reports of meter readings and accounting data on a daily, weekly or monthly time cycle.
- Reports include detailed authorization, accounting and meter information.
- PRP reports can be opened with Notepad or exported as an ASCII file format.

There are three main accounting fields in the Request software:

### Request

1. **Requester** - This is a field which can be used for accounting. Information entered is applied to the KIP Job and Print Logs.
2. **Job Number** - This is a field which can be used for accounting. Information entered is applied to the KIP Job and Print Logs. This field is tied to **ALL** Reports!
3. **Description** - This is a field which can be used for accounting. Information entered is applied to the KIP Job and Print Logs.



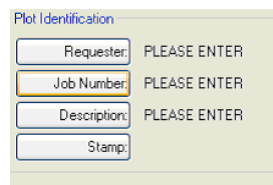
Requester:

Job Number:

Description:

When these fields are set up correctly and have been configured as “required” in the Request software, the “rules” will carry over to the other applications.

### AutoCAD



Plot Identification

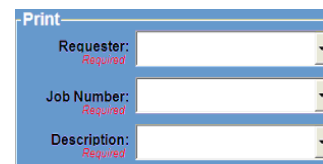
Requester: PLEASE ENTER

Job Number: PLEASE ENTER

Description: PLEASE ENTER

Stamp:

### Copymaker




Print

Requester:

Job Number:

Description:

### KIP 3000 User Log on Screen



UserName

Job-Number

Description

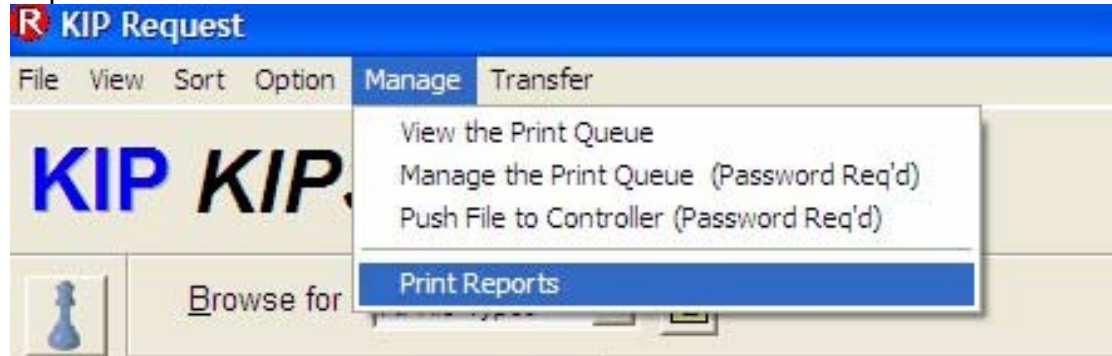
## PrintNet

Accounting fields entered into the Request software installed on the Web server host pc being utilized by KIP PrintNet will also be transferred to users accessing PrintNet via the intranet or internet.

Productivity reports can be generated from Request 6.0 and can be very helpful in keeping track of accounting data. These can be generated on a daily, weekly, monthly or custom time frame.

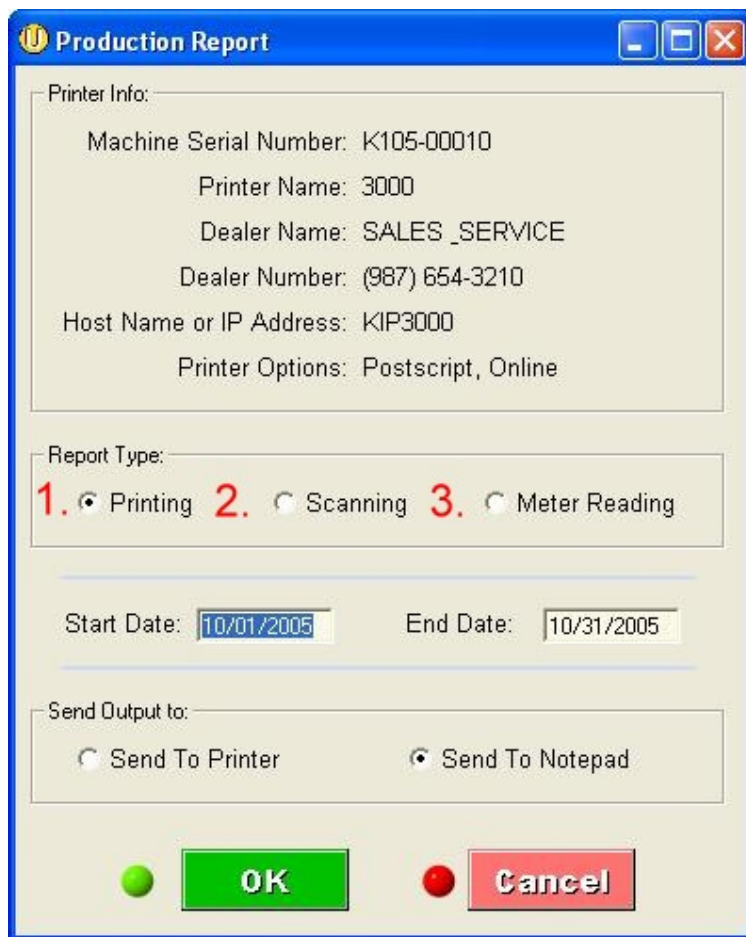
The Productivity reports can be accessed by doing the following:

1. On the Request main screen select "Manage" from the menu bar and then select "Print Reports"



2. The Following window will appear. This is where the currently selected printer information will be displayed. There are three different types of reports that can be generated from this screen:

1. Printing
2. Scanning
3. Meter Reading



The image shows a Windows-style dialog box titled "Production Report". It contains several sections: "Printer Info" with fields for Machine Serial Number (K105-00010), Printer Name (3000), Dealer Name (SALES\_SERVICE), Dealer Number ((987) 654-3210), Host Name or IP Address (KIP3000), and Printer Options (Postscript, Online). The "Report Type" section has three radio buttons: "1. Printing" (selected), "2. Scanning", and "3. Meter Reading". Below this are date pickers for "Start Date" (10/01/2005) and "End Date" (10/31/2005). The "Send Output to:" section has two radio buttons: "Send To Printer" and "Send To Notepad" (selected). At the bottom are "OK" and "Cancel" buttons, with a green status indicator on the left.

**Production Report**

Printer Info:

Machine Serial Number: K105-00010  
Printer Name: 3000  
Dealer Name: SALES\_SERVICE  
Dealer Number: (987) 654-3210  
Host Name or IP Address: KIP3000  
Printer Options: Postscript, Online

Report Type:

1. ☒ Printing 2. ☐ Scanning 3. ☐ Meter Reading

Start Date: 10/01/2005 End Date: 10/31/2005

Send Output to:

☐ Send To Printer ☒ Send To Notepad

☐ OK Cancel

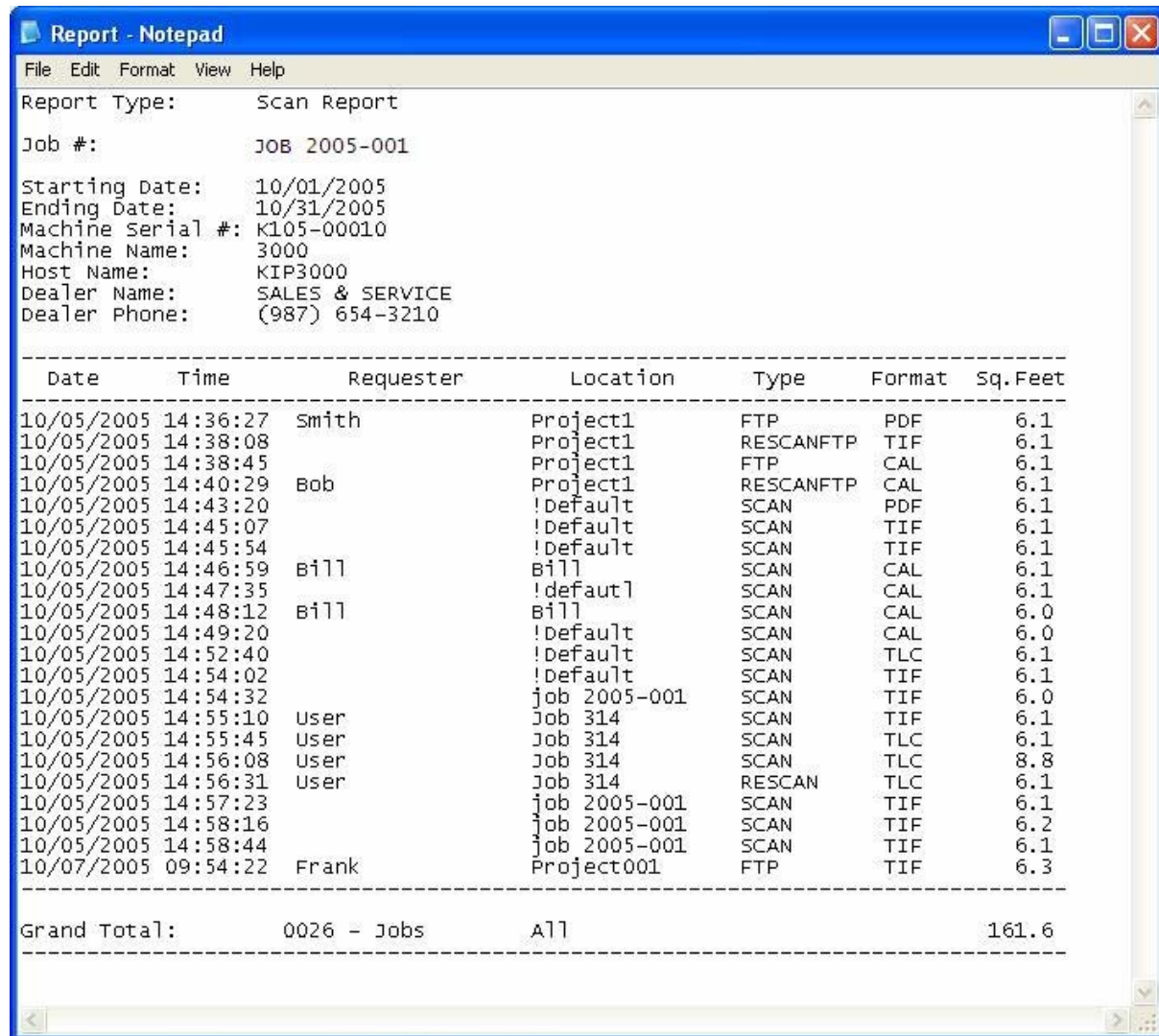
### 1. Printing

This report will include both prints and copies that have been sent to the 3000 print engine. The report will include Date, Time, Requester, Media, # of originals, # of Copies and Sq. Feet. The information for Requester and Job Number shown below are gathered from all KIP printing applications. The user can select the Start Date and the End Date of the report along with where to print the report. The report can be sent directly to the default printer attached to the PC generating the report or to the Notepad to be saved to a file.

Report - Notepad						
File Edit Format View Help						
Report Type: Print Report						
Job #: JOB 2005-001						
Starting Date: 10/01/2005						
Ending Date: 10/31/2005						
Machine Serial #: K105-00010						
Machine Name: 3000						
Host Name: KIP3000						
Dealer Name: SALES & SERVICE						
Dealer Phone: (987) 654-3210						
Date	Time	Requester	Media	# Orig	# Copies	Sq. Ft.
10/05/2005	16:24:48		Bond	1	2	12.0
10/05/2005	17:24:46	BOB	Bond	1	1	5.9
10/05/2005	18:40:47		Bond	1	1	5.9
10/05/2005	18:42:04		Bond	1	1	6.0
10/06/2005	15:08:03	Bill	Bond	1	1	46.1
10/06/2005	15:09:39		Bond	1	1	0.0
10/06/2005	15:52:02		Bond	1	1	5.6
10/07/2005	10:35:38	John	Bond	1	1	6.0
10/07/2005	11:18:50	Smith	Bond	1	1	5.9
10/07/2005	11:19:23	Johnson	Bond	1	1	5.9
10/07/2005	11:19:37	Frank	Bond	1	1	5.9
Total:			Bond			214.5
Grand Total:			0025 - Jobs	All		214.5

## 2. Scanning

This report will include all files that have been scanned to file using the Scan Mode of the 3000 UI. The report will include Date, Time, Requester, Location, Type, Format and Sq. Feet. The information for Requester shown below is gathered from all KIP printing applications. The user can select the Start Date and the End Date of the report along with what to do with this data. The report can be sent directly to the default printer attached to the PC generating the report or to the Notepad to be saved to a file.

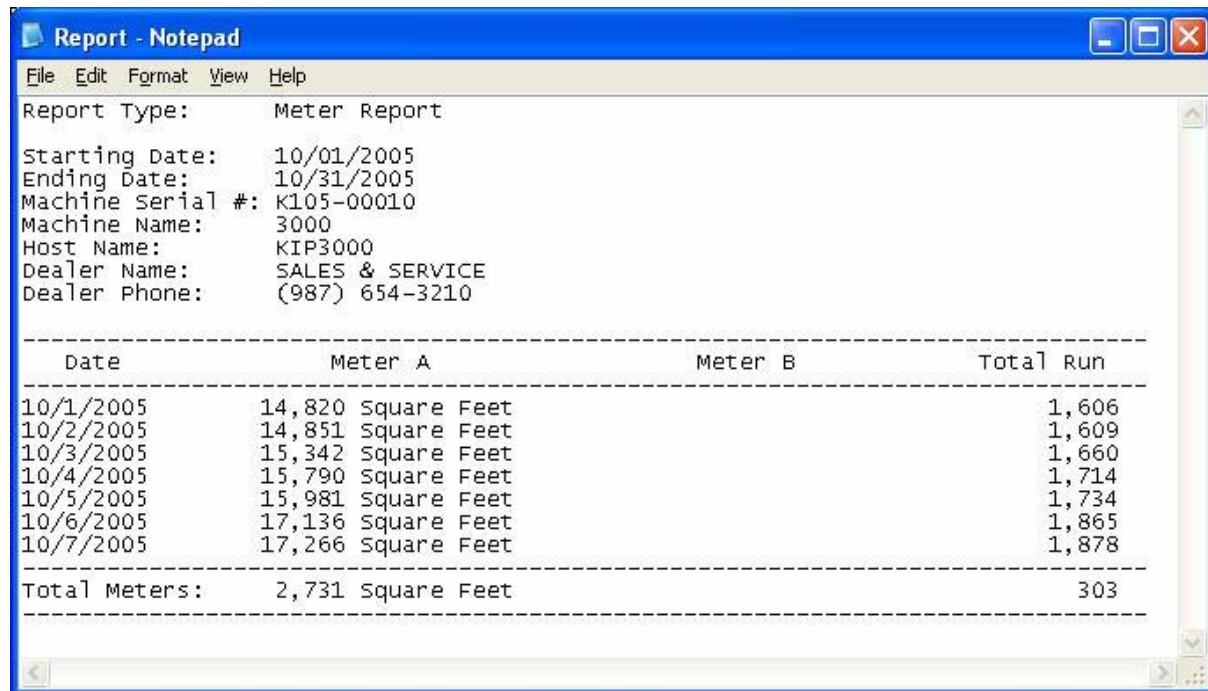


Report Type:	Scan Report					
Job #:	JOB 2005-001					
Starting Date:	10/01/2005					
Ending Date:	10/31/2005					
Machine Serial #:	K105-00010					
Machine Name:	3000					
Host Name:	KIP3000					
Dealer Name:	SALES & SERVICE					
Dealer Phone:	(987) 654-3210					
<hr/>						
Date	Time	Requester	Location	Type	Format	Sq. Feet
<hr/>						
10/05/2005	14:36:27	Smith	Project1	FTP	PDF	6.1
10/05/2005	14:38:08		Project1	RESCANFTP	TIF	6.1
10/05/2005	14:38:45		Project1	FTP	CAL	6.1
10/05/2005	14:40:29	Bob	Project1	RESCANFTP	CAL	6.1
10/05/2005	14:43:20		!Default	SCAN	PDF	6.1
10/05/2005	14:45:07		!Default	SCAN	TIF	6.1
10/05/2005	14:45:54		!Default	SCAN	TIF	6.1
10/05/2005	14:46:59	Bill	Bill	SCAN	CAL	6.1
10/05/2005	14:47:35		!default	SCAN	CAL	6.1
10/05/2005	14:48:12	Bill	Bill	SCAN	CAL	6.0
10/05/2005	14:49:20		!Default	SCAN	CAL	6.0
10/05/2005	14:52:40		!Default	SCAN	TLC	6.1
10/05/2005	14:54:02		!Default	SCAN	TIF	6.1
10/05/2005	14:54:32		job 2005-001	SCAN	TIF	6.0
10/05/2005	14:55:10	User	Job 314	SCAN	TIF	6.1
10/05/2005	14:55:45	User	Job 314	SCAN	TLC	6.1
10/05/2005	14:56:08	User	Job 314	SCAN	TLC	8.8
10/05/2005	14:56:31	User	Job 314	RESCAN	TLC	6.1
10/05/2005	14:57:23		job 2005-001	SCAN	TIF	6.1
10/05/2005	14:58:16		job 2005-001	SCAN	TIF	6.2
10/05/2005	14:58:44		job 2005-001	SCAN	TIF	6.1
10/07/2005	09:54:22	Frank	Project001	FTP	TIF	6.3
<hr/>						
Grand Total:	0026 - Jobs	All				161.6
<hr/>						



### 3. Meter Reading

This report will include daily Meter readings from the desired dates set in the Start Date and End Date. The report will include Date, Meter A, Meter B and Total run. This meter reading should closely match the actual meter reading on the KIP 3000 printer. The user can select the Start Date and the End Date of the report along with what to do with this data. The report can be sent directly to the default printer attached to the PC generating the report or to the Notepad to be saved to a file.



Report Type:	Meter Report		
Starting Date:	10/01/2005		
Ending Date:	10/31/2005		
Machine Serial #:	K105-00010		
Machine Name:	3000		
Host Name:	KIP3000		
Dealer Name:	SALES & SERVICE		
Dealer Phone:	(987) 654-3210		
<hr/>			
Date	Meter A	Meter B	Total Run
<hr/>			
10/1/2005	14,820 Square Feet		1,606
10/2/2005	14,851 Square Feet		1,609
10/3/2005	15,342 Square Feet		1,660
10/4/2005	15,790 Square Feet		1,714
10/5/2005	15,981 Square Feet		1,734
10/6/2005	17,136 Square Feet		1,865
10/7/2005	17,266 Square Feet		1,878
<hr/>			
Total Meters:	2,731 Square Feet		303
<hr/>			

## 6.4 Printing DWF files

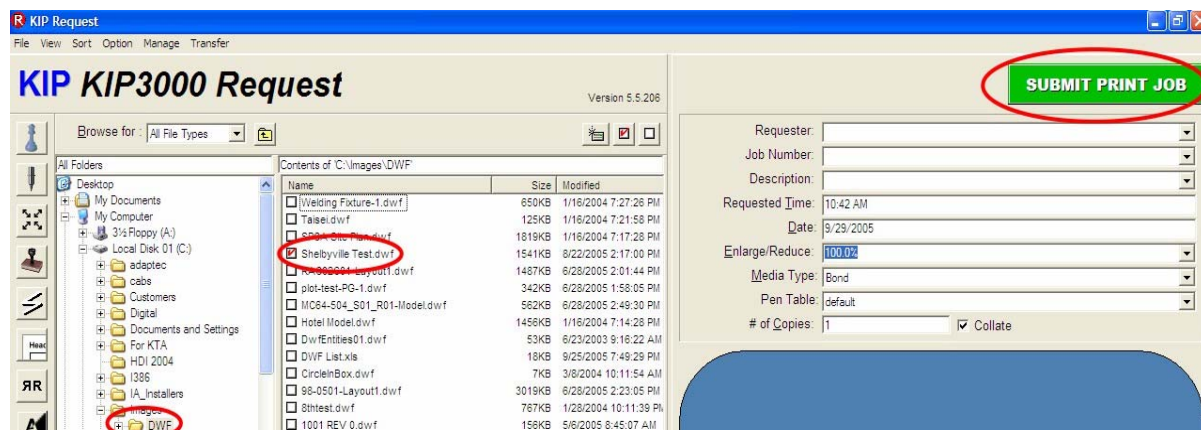
DWF (Design Web Format™) files offer a simple, secure way to share design data from Autodesk. Developed specifically for engineering design data, the DWF format is the best way to share 2D and 3D design information, because the file size is smaller and faster to transmit than either native design file formats or other alternatives. DWF files are print ready and maintain absolute data fidelity.

How are DWF's created?

- If you're using AutoCAD, Autodesk Inventor, or other Autodesk applications, you can create DWF files directly from the built-in "Publish" command within the application.
- DWF files can also be created from any application using the Autodesk DWF Writer that ships with Autodesk DWF Composer. Autodesk DWF Writer software enables you to publish to DWF format from CAD applications that do not offer built-in DWF publishing, such as Bentley Microstation or Dassault's Solidworks software. Autodesk DWF Writer is a certified Microsoft Windows system printer driver that enables you to quickly and easily convert files to DWF format.
- If you're NOT using AutoCAD, Autodesk Inventor, or other Autodesk applications, the Autodesk DWG Viewer component that ships with DWF Composer allows for the full publishing capabilities that are in AutoCAD 2006. This includes the ability to batch convert DWG files to DWF. Users simply need to add DWG files in the Publish menu before Publishing the sheet set to a single DWF file

NOTE: Some DWF files created prior to 2004 may not be compatible.

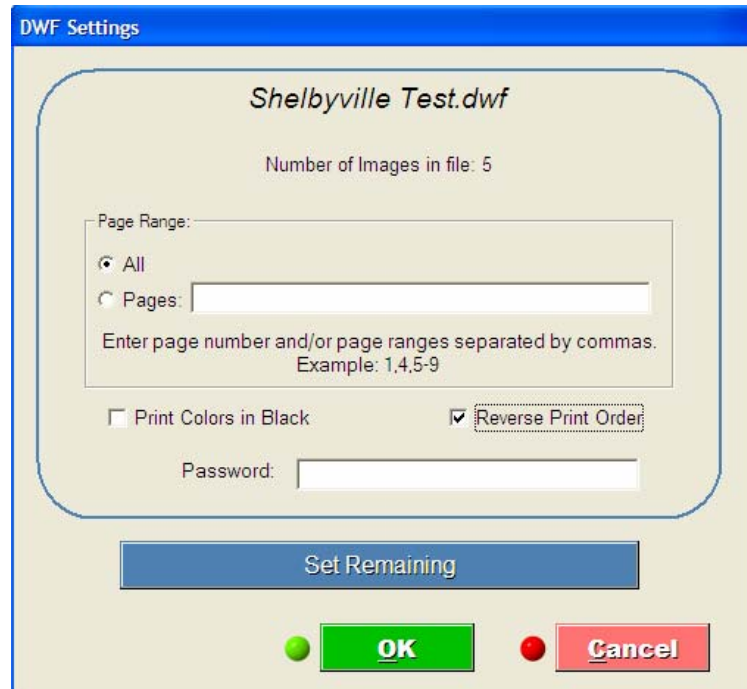
KIP Request handles printing .DWF files directly to the printer. This is done by selecting a .dwf file from a desired location and clicking on "Submit Print Job".



After clicking on “Submit Print Job”, a DWF settings window will appear.

This will allow the user to:

- a) Print all pages in a multi-page .dwf file or only the desired pages.
- b) Select to Print Colors in Black to change all of the lines / areas to print solid black and not gray.
- c) Choose “Reverse Print Order”
- d) Enter a password if the DWF files was created with password protection.



The image shows a "DWF Settings" dialog box for a file named "Shelbyville Test.dwf". The dialog has a title bar with the text "DWF Settings". Inside, the file name "Shelbyville Test.dwf" is displayed at the top, followed by "Number of Images in file: 5". Below this is a "Page Range:" section with two radio buttons: "All" (selected) and "Pages:" (unselected). The "Pages:" option is followed by a text input field. Below the input field, there is a note: "Enter page number and/or page ranges separated by commas. Example: 1,4,5-9". At the bottom of the settings section, there are two checkboxes: "Print Colors in Black" (unchecked) and "Reverse Print Order" (checked). Below these is a "Password:" label followed by a text input field. At the bottom of the dialog, there is a blue button labeled "Set Remaining". At the very bottom, there are two buttons: a green "OK" button and a red "Cancel" button.

## Section 11

# KIP PrintNET

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# 1.0 Preview / Main Screen

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KIP PrintNET is a basic web-enabled version of KIP Request for use in company intranets or the global internet. This allows job submissions to the KIP printer without installation of the KIP Request application on the PC. Users require a PC with high-speed Internet or intranet connection and a web browser. The KIP PrintNET submission tool can be used with a number of java script enabled web browsers:

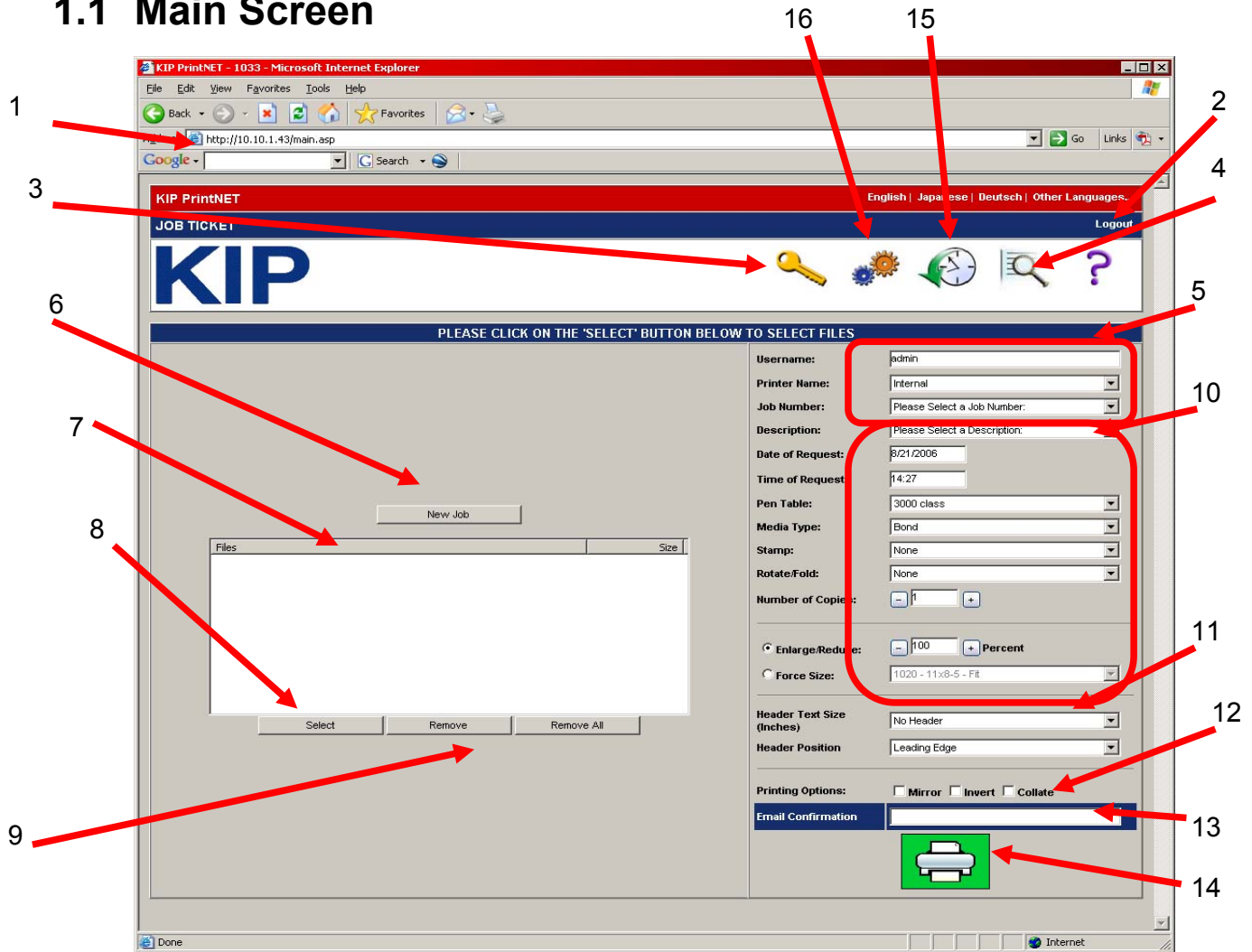
Windows Internet Explorer, Netscape Navigator, MAC Safari, Mozilla Firefox, Opera

This section of the user guide provides information about using the submission tool including its features and functionality. It demonstrates the use of Windows Internet Explorer, although other web browsers may have similar functions.

For installation, technical details and administrative procedures please refer to the chapters of *Installation, Setup and Configurations* near the end of this section. Please note that a host PC is required for the use of KIP PrintNET. The Appendix displays a few screen shots of web browsers and components required for correct and complete operation of KIP PrintNET. Certain web browsers (primarily Internet Explorer) require the use of ActiveX controls.

Please note that KIP PrintNET does not have all the advanced features as the KIP Request application and KIP request must be installed in the Host PC prior to installing KIP PrintNET.

## 1.1 Main Screen



No.	Name	Function
1	Host Address	Type in the URL of the Server / PC that hosts KIP PrintNET (password protected )
2	Logout	Logout from the KIP PrintNET session
3	Admin Setup	Administrative feature setup if logged on as administrator
4	Queue Management	Manages the job queue on the printer.
5	Accounting Region	Selection for Name of Operator, Printer type, Project number, Time and Date of requested Job,
6	New Job	Clear all previous setting to start a new print submission.
7	File Selected Area	Displays file names and the file size of selected files
8	Select	Browse to select the file(s) for printing from the PC / LAN
9	Remove / Remove All	Deleting one or all files from the job list.
10	Job Settings	Pen table selection, Media type selection, Stamp selection, Rotate / Fold selection, number of copies selection and print / image size.
11	Header / Header Position	Inserting a Header and position of the Header on the print
12	Printing Options	Provides Mirror, Invert and Collation capability
13	Email Communication	Add an email address to send auto response for job acceptance
14	Job Submission	Send a job / files
15	History Queue	View and Re-Submit Jobs
16	Printer Configuration	Change Printer Settings

## 2.0 Operation Details

---

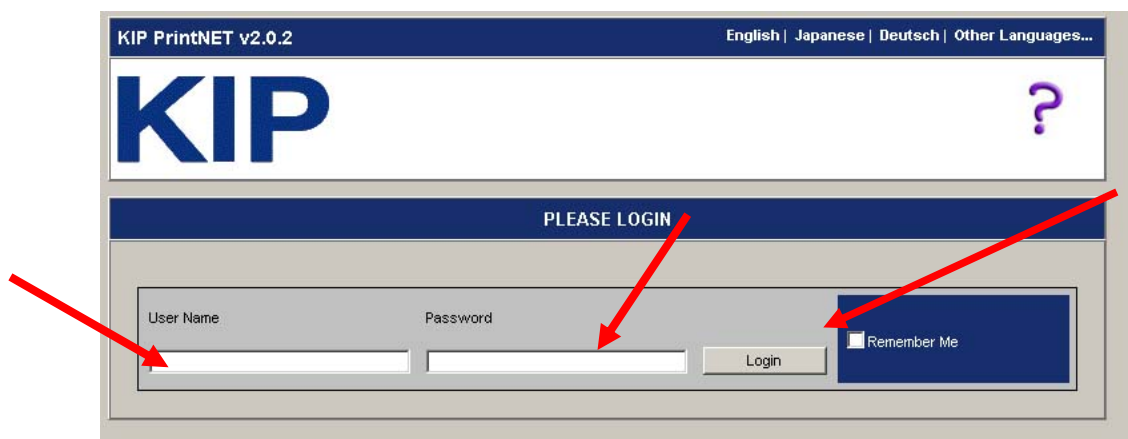
### 2.1 Login Screen

To access the PrintNET host, in the address line of your web browser type in the URL of the Server / PC that hosts the KIP Job submittal tool application. It is important to use the syntax in the following format:

[http://Host\\_Name](http://Host_Name). or IP address

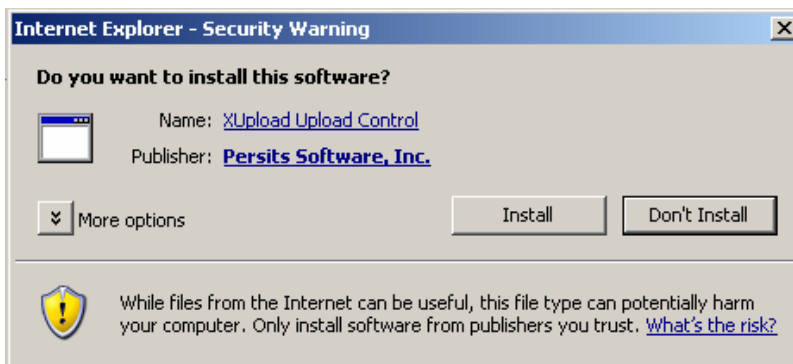
**Please contact your network administrator for your URL to the KIP printer as installations will differ.**

This link will take the user to the login web page.



Users are required to enter a login name and password as assigned by an Administrator. The 'User Name' can be a combination of numbers and letters up to 30 characters long. Upon login, the user will be able to see the KIP PrintNET web page.

If prompted to install Persits XUpload, click *Install* (first time use only. If you are unable to install this "plug in" please contact your network administrator for access)



## 2.2 Logout

Once the user has completed a job submission, they may 'Logout' of the KIP PrintNET web page.

## 2.3 Admin Setup

Please see the section *Installation and Setup* near the end of this section for details regarding Administrative functions and features.

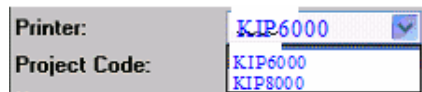
## 2.4 Requester Region

### 1) Operator

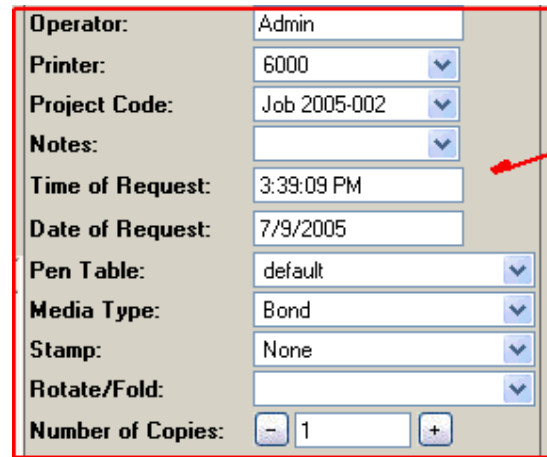
This displays the login name of the person who logged in using their user name and password.

### 2) Printer

User can make their choice of printer that is available on the network to send print jobs to. The printer setup is explained in the *Installation and Setup* section. This is only available on server hosted installations of PrintNet.



Printer:	KIP6000
Project Code:	KIP6000 KIP8000



Operator:	Admin
Printer:	6000
Project Code:	Job 2005-002
Notes:	
Time of Request:	3:39:09 PM
Date of Request:	7/9/2005
Pen Table:	default
Media Type:	Bond
Stamp:	None
Rotate/Fold:	
Number of Copies:	- 1 +

### 3) Project Code

User has the choice of using administratively defined job numbers from this list as in KIP Request software.



Project Code:	Job 2005-001
Notes:	Job 2005-001 Job 2005-002 Job 2005-003
Time of Request:	

### 4) Notes

This field allows user to enter a description for specific print jobs as in KIP Request software

### 5) Time of Request

This field displays the system time at the time of submission. This field can be used to schedule a job at a certain time, as in KIP Request software. This must be configured to allow this feature on the KIP IPS.

### 6) Date of Request

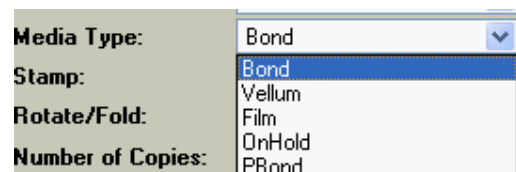
This field displays the system date at the time of submission. This field can be used to schedule a job on a certain date, as in KIP Request software.

### 7) Pen Table

User has the choice of specifying a pen table associated with a selected vector files.

### 8) Media Type

User has the choice of Bond, Vellum and Film media. Additional media types can be added to this field. Additions are made in the 'Winreq.ini' file. For more



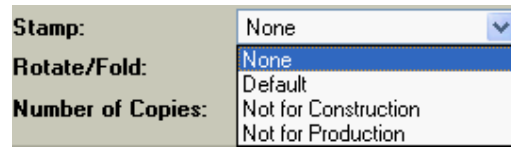
Media Type:	Bond
Stamp:	Bond Vellum Film
Rotate/Fold:	OnHold PBond
Number of Copies:	1



information, please see *Installation and Setup* section.

## 9) Stamp

Users can choose to apply an available stamp scheme to printed documents. Stamps that can be used here are created using the 'KIP Request' software.



## 10) Rotate / Fold

Users can choose to use one of the available Rotate / Fold schemes. Schemes for 'Fold / Rotate' that are available here are created using the 'KIP Request' software.

## 11) Number of Copies

Users select number of copies to print.

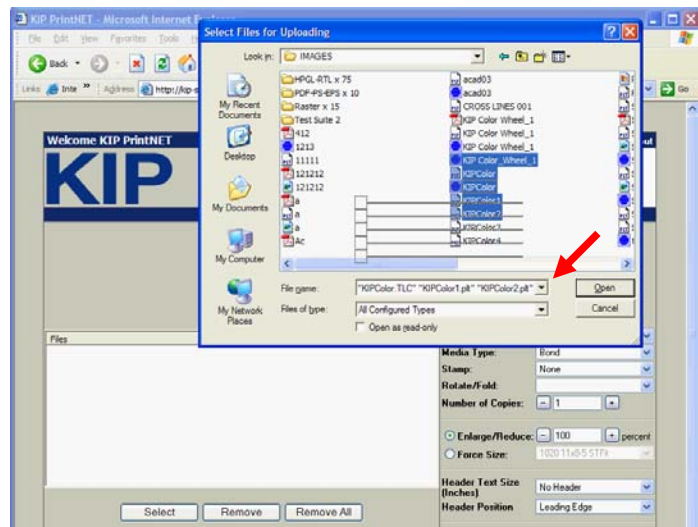
# 2.5 File Selection Area

In this section, users can add or review the files they have selected for printing.

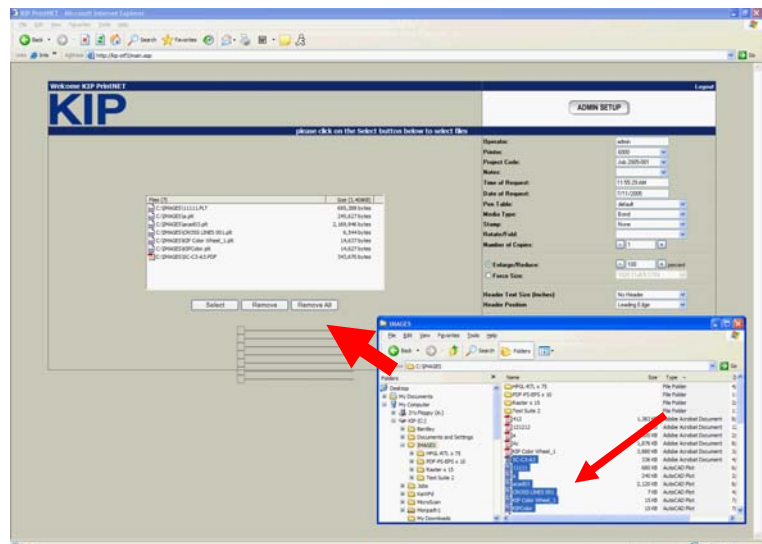
# 2.6 File Selection

There are two methods to add new files for printing.

- 1) Use "Select" to add a file to be printed. This will launch a new window for selection of the required files. Select the files using Windows commands (Ctrl+Click, or Shift+Click or a simple click) then select "Open" after highlighting the file(s)



- 2) Drag and drop feature is available here. Use Windows Explorer (or other browser as a separate window) to highlight, then drag and drop files into the KIP PrintNET File select region.



## 2.7 Remove

Select the file and use “Remove” to deselect a file that is not required to be printed



## 2.8 Remove All

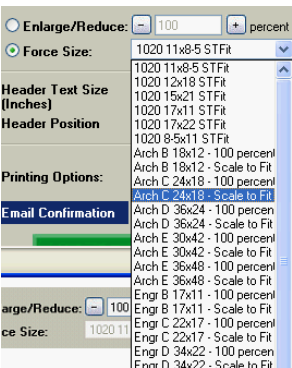
Removes all files from the file selection area.



## 2.9 Enlargement / Reduction & Force Size

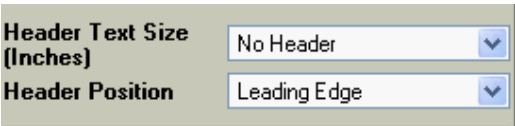
The entire set of documents selected can be reduced or enlarged from 25% up to 400%.

If the user would prefer to print files to a specific size media, the 'Force size' feature is available. Entries in Force Size are determined by KIP Request software.



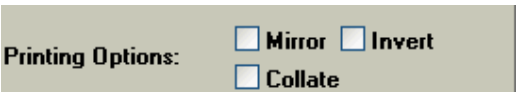
## 2.10 Header size and Position

Header (0.1 mm to 1.5mm) can be deployed on the leading edge or trailing edge of printed output.



## 2.11 Mirror / Invert / Collate

Users can choose to mirror or invert and set collation can be enabled.



## 2.12 Email Confirmation

Users may enter an e-mail address where confirmation of a print job submission will be sent. The *Installation and Setup* section of this document describes this feature and the function in greater detail.

Email Confirmation

Alan@abc.com

## 2.13 Submit Print Job

This sends the selected print files and job information to the host PC for printing.



Uploading...

Uploading File Nonfile HTML Form Items

Overall Progress:

Stop

C:\IMAGES\KIP\_Color\_Wheel\_L.TLC2,990,962 bytes

C:\IMAGES\KIPColor.pR14,627 bytes

Select Remove Remove All

Printer:6000

Project Code:Job 2005-001

Notes:

Time of Request:1:30:46 PM

Date of Request:7/10/2005

able:default

Type:Bond

None

/Fold:

Number of Copies:1

Size/Reduce:100 percent

Force Size:1020 11x0.5 STFX

Header Text Size (Inches):No Header

Header Position:Leading Edge

Printing Options:☐ Mirror ☐ Invert ☐ Collate

Email Confirmation

## 2.14 Manage Queue

To use this feature the IP or URL of the KIP 3000 must be known. That is a HOST PC configuration can not access the print queue, only direct connection to the KIP 3000.



Select this button to manage and view the job queue in the KIP 3000 Printer. Must be logged in as Administrator.

Printer status or installed roll information

Refresh List

**Delete Job**

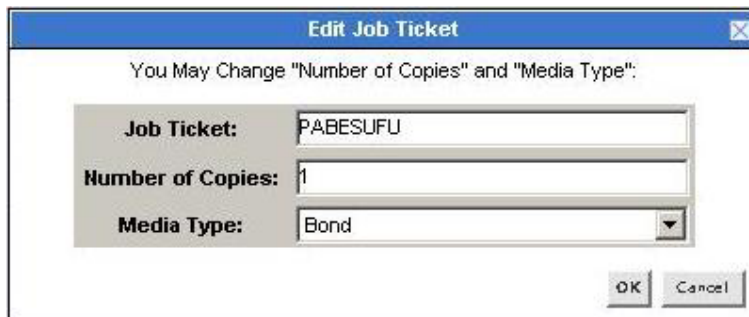
Select the job(s) then use this button to remove

## Edit Job

To edit a job, right click on the JOB TICKET name and select Edit Job Ticket.



A window will come on the screen allowing you to change the Number of Copies and Media Type. Select OK when done.



### **Note:**

Queue Management will work only if connected directly to the IPS on the KIP 3000.

## 3.0 Installation

---

The KIP 3000 has the services required for direct connection so no additional hardware is required. However, if more than four concurrent uses will submit jobs to the KIP 3000 a HOST PC must be used!

### 3.1 Requirements: Host PC Operating System

1. Microsoft Windows 2000/2003 Server or Microsoft Small Business Server
2. IIS 5.1 or later.
3. KIP Request 6.0 or later must be installed on the host PC.
4. KIP Request 6.0 must have a username "admin" and a password "kip" for initial KIP PrintNET configuration.

### 3.2 Requirements: Host PC NTFS Permission

1. Internet Guest Account (IUSR\_XXXX)\* requires read/write/modify NTFS permissions to the following files for KIP Request and KIP PrintNET applications:

\include\emailsettings.asp  
\Request\winreq.ini

2. Internet Guest Account (IUSR\_XXXX)\* and "Network Service" System Object requires read/write/modify NTFS permissions to the following directories for KIP Request and KIP PrintNET applications:

\Request\  
\Request\Settings  
\Uploads\*\*

*\* IUSR\_XXXX where XXXX represents the Computer Name hosting the KIP PrintNET application*

*\*\* Uploads location is defined by a System Environment variable 'KIPN' followed by Uploads subdirectory. By default, KIPN is set to the installation path of KIP PrintNET specified at installation.*

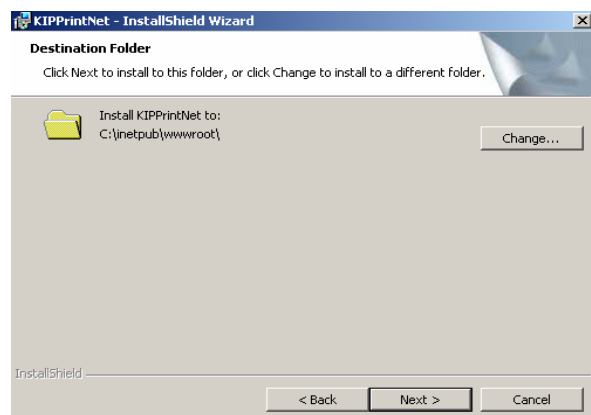
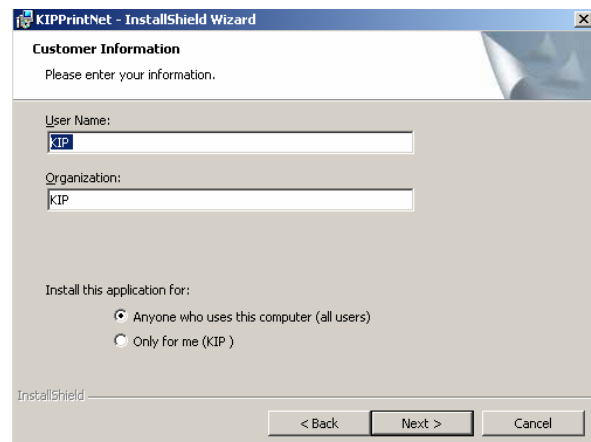
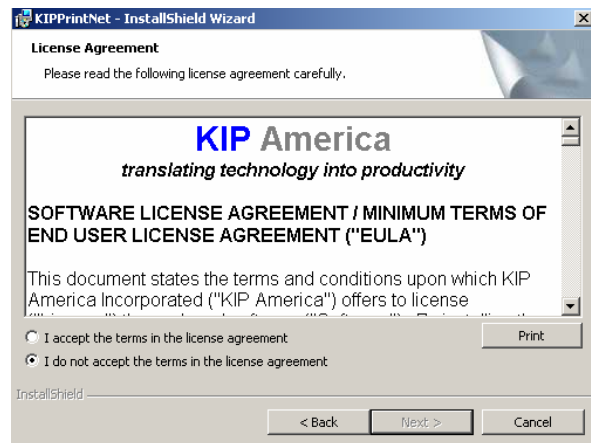
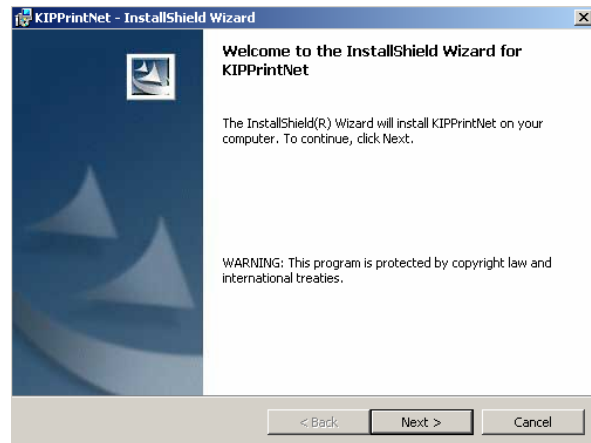
### 3.3 Requirements: Host PC Network Protocol

1. TCP Port 80 inbound for web page content delivery and document upload functionality.
2. Connection to TCP Port 8421 outbound for delivery of print jobs to KIP Printer
3. Connection to TCP Port 25 (optional) outbound for e-mail delivery confirmation.

## 3.4 Host PC Installation

1. Ensure installer has local Administrative privileges
2. Install KIP Request on the Host PC.  
(please see the KIP Request section see install KIP Software CD)
3. Execute the KIP PrintNET installation by double-clicking on the **KPNSetup\_v2.2.exe** (see KIP Software CD)
4. Read and accept the KIP End User License Agreement.
5. Enter User Information and Company Information:
6. Select Installation directory.  
(Default is C:\Program Files\KIP\PrintNET)
7. Click Next to complete installation:

KIP PrintNET creates a virtual directory with the alias 'PrintNET' on the instance of IIS provided by the Host PC.



## 4.0 Host PC Configuration

---

This section of the document explains how to setup certain user settings for use inside of KIP PrintNET. This section requires advanced knowledge of KIP Request software and its configuration settings on the host system as defined by Winreq.ini. Changes made in Winreq.ini on the host PC are reflected in KIP PrintNET.

From the main screen, our main focus will be on the following features:

The screenshot shows a configuration window with the following fields and values:

Operator:	admin
Printer:	6000
Project Code:	Job 2005-001
Notes:	
Time of Request:	2:34:55 PM
Date of Request:	7/10/2005
Pen Table:	default
Media Type:	Bond
Stamp:	None
Rotate/Fold:	
Number of Copies:	1
<input checked="" type="radio"/> Enlarge/Reduce:	100 percent
<input type="radio"/> Force Size:	1020 11x8-5 STFit

### a) Requester, Job Number, and Description

To edit, open Winreq.ini on the Host PC and scroll to the following lines:

**Prompt=Job Number:**  
**RequesterPrompt=Requester:**  
**DescriptionPrompt=Description:**

Requester Job Number and Description fields can be edited to match user requirements. An example is shown below:

**Prompt=Project Code:**  
**RequesterPrompt=Operator:**  
**DescriptionPrompt=Notes:**

Please refer to KIP User Guide for KIP Request software for more information

### b) Pen table

Available pen table files are created and defined within KIP Request. KIP PrintNET software will use pen tables defined in KIP Request.\*

Please refer to KIP User Guide for KIP Request software for more information on pen table setup



### c) **Media type**

Available media types 'Bond', 'Vellum', 'Film' are defined within Winreq.ini  
KIP PrintNET software will use the media types tables defined in winreq.ini  
Winreq.ini can be edited to allow more media types. An example showing an additional defined media 'TBond' is shown below. Up to six (6) character long names can be chosen for Media types. To edit, open Winreq.ini on the Host PC and scroll to the following lines

```
[PaperTypes]
Paper0=Bond
Paper1=Vellum
Paper2=Film
Paper3=TBond
```

### d) **Stamp**

Available stamps are created and defined within KIP Request. KIP PrintNET software will use stamps defined in KIP Request.\*

Please refer KIP Technical User Guide for KIP Request software for more information on pen table setup

### e) **Rotate / Fold**

Available Rotate / Fold parameters are defined within KIP Request. KIP PrintNET software will use Rotate / Fold parameters defined in KIP Request.\*

Please refer KIP Technical User Guide for KIP Request software for more information on Rotation and Fold parameters

### f) **Enlarge / Reduce and Force -Size settings**

Standard enlargement and reduction ratios 25%, 50%, 66.7%, 75%, 150%, 200% and 400% are non-modifiable. Additional Force-Size settings are created and defined within KIP Request. KIP PrintNET software will use Force-Size settings defined in KIP Request.\*

Please refer KIP Technical User Guide for KIP Request software for more information on Force-Size settings

## 5.0 Configuration

---

Verify local host access to KIP PrintNET by opening your web browser and entering `http://localhost/PrintNET`

The main login screen to the KIP PrintNET software should appear.



KIP PrintNET v2.0.2 English | Japanese | Deutsch | Other Languages...

**KIP** ?

PLEASE LOGIN

User Name Password

☐ Remember Me

***Both the user name and password for Administrative access to KIP PrintNET must be defined within KIP Request software using Prompt Setup operations for the Requester field. Requester prompt must be configured as “Required” from the pulldown list.***

The default user name for accessing the Administrative account is: admin

The default password for accessing the Administrative account is: kip

After administrative authentication, select *Admin Setup*.



# 5.1 Administrative Screen

1	Home Screen
2	Printer Configuration Screen
3	Job List Screen
4	Job History Screen
5	User Guides
6	Add, Edit, and Delete Users
7	Email Settings

# 5.2 Email Settings

## SMTP

The screenshot shows a web-based 'Email Settings' window with a blue title bar. Below the title bar are four tabs: 'SMTP', 'Job Ticket Email', 'Printer Error Message', and 'Monthly Meter Report'. The 'SMTP' tab is selected. Under the heading 'SMTP Settings', there are four input fields: 'SMTP Server:' with the value 'smtp.printnet.com', 'SMTP Username:' with the value 'Admin', 'SMTP Password:' with masked characters '.....', and 'From Address:' with the value 'kip5000admin@printnet.com'. Below these fields are two buttons: 'Test Server' and 'Submit'.

Setup SMTP Server and Email settings. Click Submit when finished.

**SMTP Server:** Name or IP Address of your Email Server.

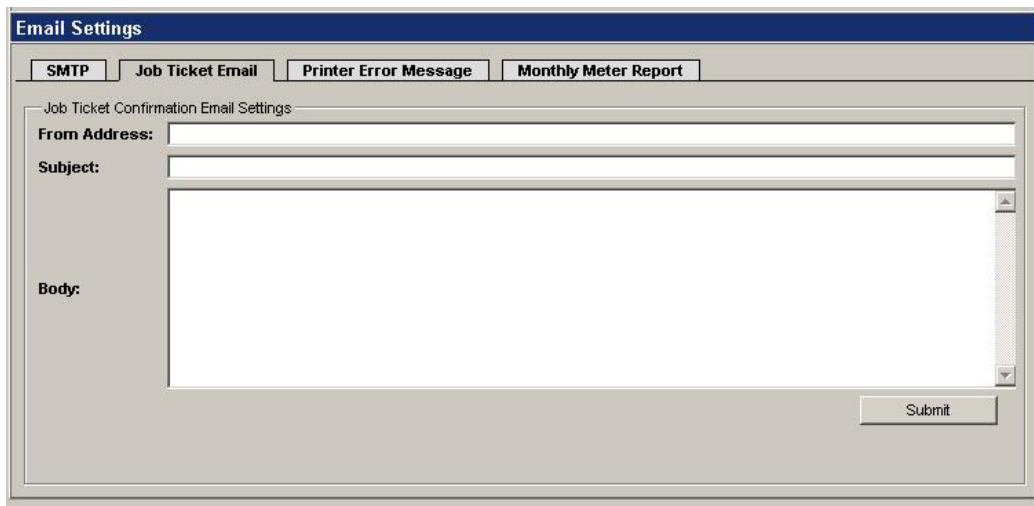
**SMTP Username:** Login name for Email Server.

**SMTP Password:** Password for login.

**From Address:** Email Address that will show in the from field.

Click the Test Server button to test login credentials.

## Job Ticket Email

The screenshot shows the same 'Email Settings' window, but with the 'Job Ticket Email' tab selected. Under the heading 'Job Ticket Confirmation Email Settings', there are three input fields: 'From Address:', 'Subject:', and 'Body:'. The 'Body:' field is a large text area. At the bottom right of the form is a 'Submit' button.

This section sets the E-Mail message that is sent when a job is submitted through PrintNET and a receipt is requested.

**From Address:** Email Address that will show in the from field. You can put multiple address in separated by a semicolon “;”.

**Subject:** Subject of the Email.

**Body:** Body of Email.

NOTE: You can right click in the Subject or Body sections and select a macro to be automatically filled in when message is sent. You can choose from Job Ticket, Requester, Job Number, and Description.

## Printer Error Message

The screenshot shows the 'Email Settings' window with the 'Printer Error Message' tab selected. The 'Recipients' field is empty. The 'Subject' field contains 'Error Condition {DATE\_TIME}'. The 'Body' field contains '{EVENT\_MESSAGE}'. The 'Events' section has three checked options: 'Printer Out of Toner', 'Printer Out of Paper', and 'Printer Jams'. The 'Send Now' and 'Submit' buttons are at the bottom right.

E-Mail is sent every time one of the selected events is triggered. You can choose from Out of Toner, Out of Paper, and Paper Jams.

**Recipients:** Email address that will be set to. You can put multiple address in separated by a semicolon “;”.

**Subject:** Subject of the Email.

**Body:** Body of Email.

NOTE: You can right click in the Subject or Body sections and select a macro to be automatically filled in when message is sent. You can choose from Date/Time, Event Message, Printer Name, Printer Serial Number, IP Address, Dealer Name, Dealer Phone Number, Meter A, Meter A Unit, Meter B, Meter B Unit, and Total Run.

## Monthly Meter Report

The screenshot shows the 'Email Settings' window with the 'Monthly Meter Report' tab selected. The 'Recipients' field contains 'jshipley@kipamerica.com; pbulbin@kipamerica.com'. The 'Subject' field contains 'Monthly Meter Report'. The 'Body' field contains a template email starting with 'Dear KIP 5000 BETA Administrators' and followed by a notice about a monthly report sample, with placeholders for printer details and meter readings. Below the body is a 'Generate Schedule' section with dropdowns for 'Period' (Weekly), 'Day of Month' (First Of Month), 'Day of Week' (Thursday), and 'Time' (16:00). There is also an unchecked checkbox for 'Attach Raw Log File'. 'Send Now' and 'Submit' buttons are at the bottom right.

E-Mail sent for meter reports. This can be scheduled Weekly or Monthly.

**Recipients:** Email address that will be set to. You can put multiple address in separated by a semicolon “,”.

**Subject:** Subject of the Email.

**Body:** Body of Email.

NOTE: You can right click in the Subject or Body sections and select a macro to be automatically filled in when message is sent. You can choose from Printer Name, Printer Serial Number, IP Address, Meter Reading Date, Meter Reading Time, Meter A, Meter A Unit, Meter B, Meter B Unit, Copy, Network Print, Scan, and Total Run.

## 5.3 Printer Configuration

**NOTE:** Undesired output might occur if settings are changed.

This section is for configuring the printer. After making necessary changes click on submit. Changes will be sent to the printer and after 20 seconds the new settings will be displayed.

The screenshot displays the KIP PrintNET web interface for printer configuration. The top navigation bar includes language options (English, Japanese, Deutsch, Other Languages...) and a 'Back | Logout' link. The main header shows the 'Printer Management' title and the 'KIP' logo. The interface is divided into two main sections: 'Basic Configuration' and 'Advanced Configuration'.

**Basic Configuration:**

- Printer Units: ENGLISH**
- Printer Name:** A text field containing '5000'.
- Historical Queue:** A section with a 'Queue Size' of '2 GB' and a slider control.
- Copy Density Value:** A table of settings for different density levels:

Copy Density Value	Value
Light	15
Medium Light	25
Medium	30
Medium Dark	35
Dark	40
- Output Rotation:** Radio buttons for 'Rotate For Faster Printing' (unselected) and 'Rotate For Least Paper Usage' (selected).
- Reprint:** Fields for 'Reprint Jam (in)' set to '24' and 'Reprint Jam Copies' set to '2'.
- Print Setting:** Radio buttons for 'Center' (selected), 'Closest', and 'Exact'.
- A 'Submit' button is located at the bottom right of this section.

**Advanced Configuration:**

- Print Separator Sheets:** Checkboxes for 'Between Jobs' and 'Between Sets'.
- Deck Info:** Five dropdown menus for 'Deck 1' through 'Deck 5', all set to 'Auto'.
- Other:** A table of settings for various printer parameters:

Other	Value
Min Cut Length (in)	3.27
Max Image Length	5000
HPGL Min Lineweight (in)	0.003
HPGL Min Greyscale	1
DWF Min Lineweight (pixels)	1
Image Width Removal (pixels)	75
Lead Edge Void (pixels)	50
Delay Between Collated Set	0
- Custom Media Types:** Eight dropdown menus for 'Media Type 1' through 'Media Type 8', with values: Bond, Vellum, Film, OnHold, Pink, Green, and two empty fields.
- A 'Submit' button is located at the bottom right of this section.

### Basic Configuration

- **Printer Name**  
The name of this printer.
- **Historical Queue**  
Sets size limit of the historical queue. A "0" (Zero) setting will turn off. Measured in Gigabytes. The range can be set from "0" (Disabled) to "25".
- **Print Setting**  
Sets selection for paper size.
- **Copy Density Value**  
Sets density values for prints.
- **Output rotation**  
Rotates landscape/portrait based on selection.

- **Reprint**

Sets the number of copies to reprint after a jam condition. This value is used as default.

Sets the number of inches to reprint after a jam condition. If a value is set here it will override the default copies to reprint.

## **Advanced Configuration**

- **Print Separator Sheets**

Sets where separator sheets are printed.

- **Deck Info**

Sets Media selection. Custom Media Types can be added here.

- **Other**

Min Cut Length – Sets the minimum length a sheet can be cut to, measured in Inches. Default 8.25”.

Max Image Length – Sets maximum image length that can be printed, measured in Inches. Default 600”.

HPGL Min Line weight – Sets the minimum line weight for HPGL pens, measured in Inches. Default .003”.

HPGL Min Grayscale – Sets the minimum setting for grayscale. Default 1.

DWF Min Line weight – Sets the minimum line weight for DWF images. Default 1.

Image Width Removal – Sets how much width of the image is removed, measured in pixels. Default 75.

Lead Edge Void – Sets the amount of the leading edge is ignored, measured in pixels. Default 50.

Delay Between Collated Sets – Sets the print delay in between collated sets, measured in seconds. Default 1.

- **Custom Media Types**

Lists and sets Media Types.




## 5.4 Job History

The Job History screen displays a list of jobs that have been printed.


KIP PrintNETEnglish | Japanese | Deutsch | Other Languages...

Historical QueueBack | Logout

KIP



<input type="checkbox"/>	JOB TICKET	Requester	Job Number	Description	Date/Time	# of Originals	# of Sets	Media Type
<input type="checkbox"/>	KOMOJAKA	AMalibu	2000	ASAP	8/21/2006 11:12:26 AM	002	2	Bond
<input type="checkbox"/>	TIKACECO	BJones	1000	ASAP	8/21/2006 11:12:41 AM	002	2	Bond
<input type="checkbox"/>	YAHAGOB	GSmith	3000	ASAP	8/21/2006 11:12:43 AM	001	3	Bond
<input type="checkbox"/>	NOWOHUHU	GSmith	4000	ASAP	8/21/2006 11:12:45 AM	002	2	Bond
<input type="checkbox"/>	QUXAPIGE		KIP 3000 Copier		8/21/2006 11:12:47 AM	001	2	Bond
<input type="checkbox"/>	BUROFIBE	Brian	2000	ASAP	8/21/2006 11:12:49 AM	001	1	Bond
<input type="checkbox"/>	PATAXUVO	AMalibu	KIP 3000 Copier	ASAP	8/21/2006 11:12:51 AM	001	1	Bond



Page 1 / 1

To edit a job, right click on the Job Ticket name. The following screen shows up and you can then change the number of copies and media type.

Edit Job Ticket

You May Change "Number of Copies" and "Media Type":

Job Ticket:

PABESUFU

Number of Copies:

1

Media Type:

Bond

OK

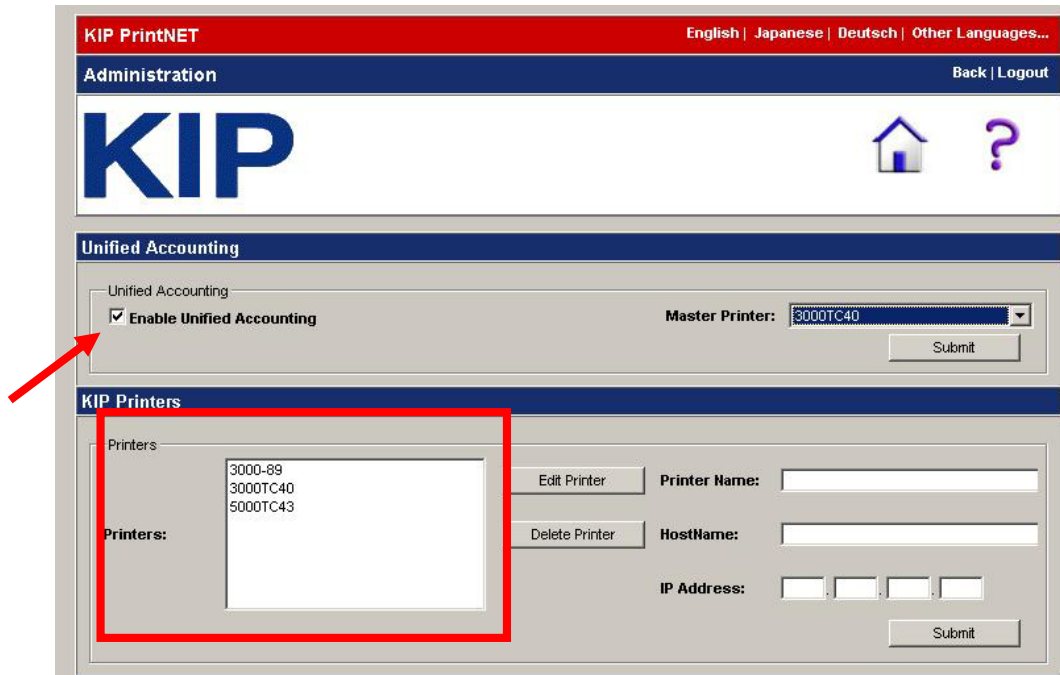
Cancel

Click on the Print icon to re-submit the jobs selected.



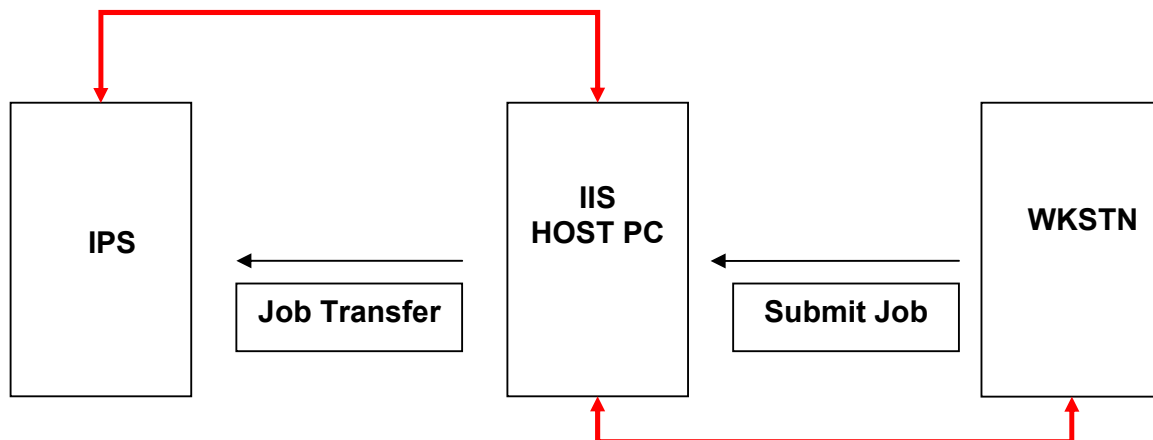
## 5.5 Unified Accounting

This feature becomes available when multiple printers are used in a server environment. If Unified Accounting is wanted a host printer needs to be selected from the list of printers on the IIS Host. All accounting information will be pulled from this printer.



When using Unified Accounting the Workstation and IPS DO NOT Communicate directly with one another.

In this diagram shows how the Workstation communicates with the IIS Host and the IIS Host then communicates with the IPS inside the selected printer.

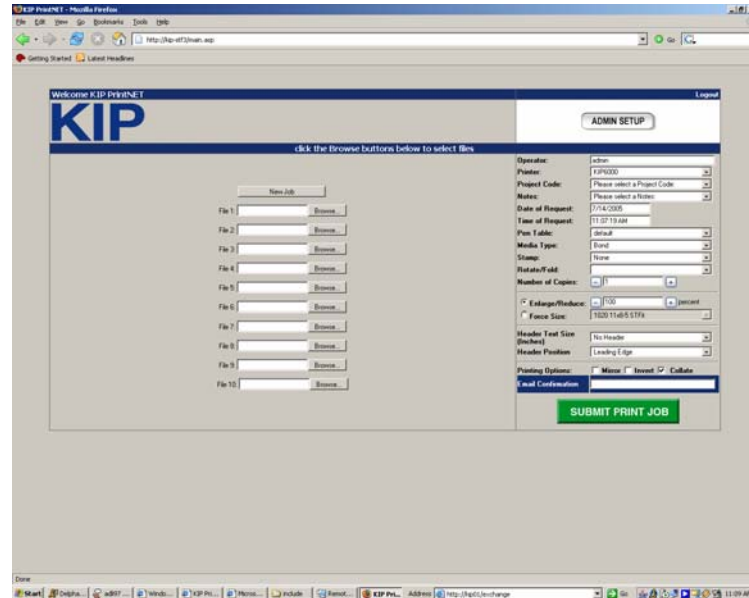


## 6.0 Appendix

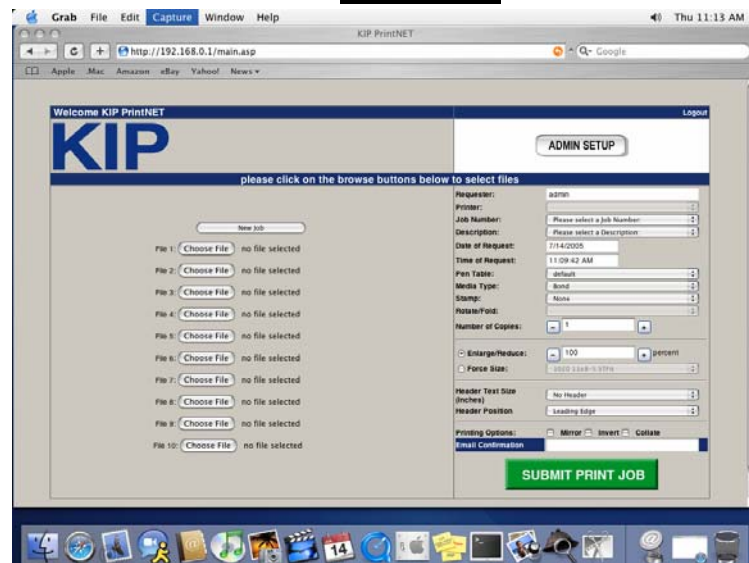
### Other Web Browsers

This document is created using the most popular web browser at the time of publishing. Other browsers are available which may change operation of KIP PrintNET. This is based upon the ActiveX abilities of the browser and the OS. Here are a few other examples of browsers that are available to submit prints using KIP PrintNET.

#### KIP PrintNET on Mozilla Firefox



#### KIP PrintNET on MAC Safari



## KIP PrintNET on Opera

The screenshot displays the KIP PrintNET web application running in the Opera browser. The browser's address bar shows the URL <http://kpf-off21man.asp>. The application interface includes a top navigation bar with a 'Log out' link and an 'ADMIN SETUP' button. The main content area is titled 'Welcome KIP PrintNET' and features a 'New Job' section with ten file selection buttons (File 1 to File 10). To the right of the file selection area is a configuration panel with the following settings:

- Operator: admin
- Printer: KIP1000
- Project Code: Please select a Project Code
- Notes: Please select a Notes
- Date of Request: 7/14/2005
- Time of Request: 11:05:26 AM
- Pin Table: default
- Media Type: Bond
- Stamp: None
- Rotate/Fold: ☐
- Number of Copies: 1
- Enlarge/Reduce: 100 percent
- Face Size: 10.5 x 14.5 x 0.015
- Header Text Size (Inches): No Header
- Header Position: Leading Edge
- Printing Options: Mirror ☐ Invert ☐ Collate ☒
- Print Confirmation: ☐

A green 'SUBMIT PRINT JOB' button is located at the bottom of the configuration panel. The Windows taskbar at the bottom of the screen shows the Start button, several open applications (including 'KIP Print...'), and the system clock displaying 11:11 AM on 7/14/2005.

**KIP PrintNET installs the following files and folders to a user specified installation directory:**

\admin.asp	Administration Page
\aspupload.dll	Provides upload functionality
\checkp.asp	Provides form functionality
\default.asp	Default Login Page
\dragdrop.asp	File Selection Window
\logout.asp	Provides Logout functionality
\main.asp	Main User Interface Page
\mainsubmit.asp	Provides Job Submit functionality
\newjob.asp	Provides New Job action functionality
\simpleupload.asp	Provides Non ActiveX upload functionality
\xupload.asp	Provides ActiveX upload functionality
\xupload.ocx	ActiveX Control
\css\sft.css	Contains font formatting
\images\adminbutton.jpg	User Interface Graphic
\images\back.jpg	User Interface Graphic
\images\button2.png	User Interface Graphic
\images\kiplogo.jpg	User Interface Graphic
\images\kiplogo.gif	User Interface Graphic
\images\minus.gif	User Interface Graphic
\images\plus.gif	User Interface Graphic
\images\return.jpg	User Interface Graphic
\images\submit.jpg	User Interface Graphic
\include\email.asp	Provides e-mail functionality
\include\emailsettings.asp	Contains e-mail settings
\include\formcheck.js	Contains rules for form fields
\include\settings.asp	Contains main application settings
\include\utils.asp	Contains detection of user web browser capability
\include\x.js	Contains additional rules for form fields
\include\xmlhttprequest.js	Contains Opera webbrowser upload capability
\libs\kiputils.dll	Provides job submission to KIP printers
\Uploads	Directory for accepting submitted print jobs

## 7.0 Frequently Asked Questions (FAQ)

---

**Q: When I connect to KIP PrintNET, I am prompted to install an ActiveX control. What is this? I do not see the “browse” area that allows me to select my files for printing. Why?**

**A:** KIP PrintNET uses an ActiveX control for those using Internet Explorer web browsers. You must allow the ActiveX control permission to load. If the ActiveX control does not load it may be because some facilities prevent ordinary users from loading ActiveX controls / content without proper computer and / or network permissions. Please see your administrator.

**Q: When I submit a large print job, my web browser hangs even though the progress bar says 0:00 seconds left.**

**A:** KIP PrintNET verifies that each file was received by the Hosting PC. Once this verification is completed, control is given back to the web interface

**Q: I am getting an error when submitting my print job. I see some error codes.**

**A:** Errors while submitting print jobs are most likely caused by a permissions issue at the PC hosting KIP PrintNET. The Internet Guest User on the hosting PC (IUSR\_XXXX) requires read / write / modify permissions applied to the Uploads directory defined in settings.asp. Please see your administrator regarding this type of issue.

**Q: Do I have to use Windows 2000 Server or Windows 2003 Server?**

**A:** Not necessarily. Windows 2000 Professional and Windows XP Professional contain a stripped down version of IIS, but is limited by concurrent connection limits, and full IIS features and capabilities.

**Q: What is IIS 5.1? How do I get it?**

**A:** IIS stands for Internet Information Services and is provided by Microsoft in Windows 2000 Professional, Windows 2000 Server, various versions of Small Business Server, Windows XP Professional, and Windows 2003 Server. Within Add / Remove Programs, select Add / Remove Windows Components. IIS is an option in this area.

**Q: Can KIP PrintNET run on previous version of IIS? What about Windows NT 4 Server?**

**A:** No. The necessary controls for providing / hosting KIP PrintNET require IIS 5.1 or better implementations. Windows NT 4 Server does not contain a version suitable for KIP Print Net

**Q: How do I change the location where Uploads are stored on the Hosting PC?**

**A:** KIP PrintNET defines a system environment variable at installation time called KIPN. The “Uploads” folder is a directory inside of the path specified by the KIPN system environment variable. Change the value of KIPN environment variable and create an uploads folder within the new path.

**Q: How long are Uploads stored in the Uploads location on the PC hosting KIP PrintNET?**

**A:** KIP PrintNET purges the Uploads directory of any compressed files older than two (2) days from the time received.

## Section 12

# Productivity Reports

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# 1.0 Productivity Reports - KIP 6.2 Software

---

The KIP Productivity Reporting is designed to use information gathered from accounting fields in KIP Request along with various applications that have been linked to KIP Request such as:

KIP AutoCAD Driver  
KIP PrintNet  
KIP Windows Driver  
KIP 3000 Copy and Scan

By sharing accounting data generated in KIP Request users have the ability to link multiple application using the same accounting rules. This allows managers to generate reports that have valuable accounting information and can be manipulated to get the desired output including the following:

- KIP productivity reporting package generates reports of meter readings and accounting data on a daily, weekly or monthly time cycle.
- Reports include detailed authorization, accounting and meter information.
- Reports can be opened into Notepad or exported as an ASCII file format.
- Reports can be sent via SMTP to any email capable device (i.e. PC, PDA, Cell Phone)

There are three main accounting fields:

## KIP Request

1. **Requester** – This is a field which can be used for accounting. Information entered is applied to the KIP Job and Print Logs.
2. **Job Number** - This is a field which can be used for accounting. Information entered is applied to the KIP Job and Print Logs.
3. **Description** - This is a field which can be used for accounting. Information entered is applied to the KIP Job and Print Logs.

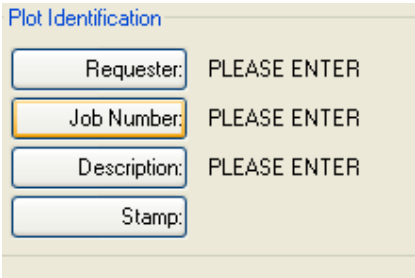


A screenshot of a form titled 'KIP Request' with three input fields. The first field is labeled 'Requester:', the second 'Job Number:', and the third 'Description:'. Each field has a light blue border and a small yellow highlight on the left side.

When these fields are set up correctly and have been configured as “required” in the Request software the “rules” will carry over to the other application

## AutoCAD Driver

From with the KIP AutoCAD driver



A screenshot of a form titled 'Plot Identification' with four input fields. The first field is labeled 'Requester:', the second 'Job Number:', the third 'Description:', and the fourth 'Stamp:'. Each field has a light blue border and a small yellow highlight on the left side.



## KIP 3000 User Log on Screen

On the Copy / Scan screen if accounting enabled

UserName	Job-Number	Description
Required	Required	Required

## PrintNet

Accounting fields entered into the Request software installed on the Web server host pc being utilized by KIP PrintNet will also be transferred to the to users accessing the PrintNet via the intranet or internet.

<b>Requester:</b>	<input type="text" value="admin"/>
<b>Printer Name:</b>	<input type="text" value="Internal"/> ▼
<b>Distribution:</b>	<input type="text" value="Please Select a Distribution:"/> ▼
<b>Description:</b>	<input type="text" value="Please Select a Description:"/> ▼

## KIP Windows Printer Driver

The KIP Windows driver will retrieve the accounting list and rules from the KIP IPS.

KIP Print Identification

Please input the following information:

\* Requester:

\* Distribution:

\* Description:

\* Required Information

OK

Cancel

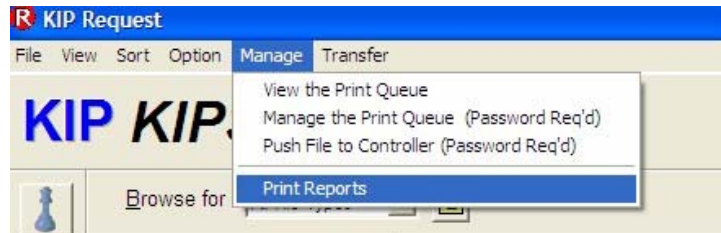
## 2.0 Creating Productivity Reports

---

Productivity reports can be generated from KIP Request 6.x and can be very helpful in keeping track of accounting data. These can be generated on a daily, weekly, monthly or custom time frame.

The Productivity reports can be accessed by doing the following:

- a) On the Request main screen select “Manage” from the menu bar and then select “Print Reports”

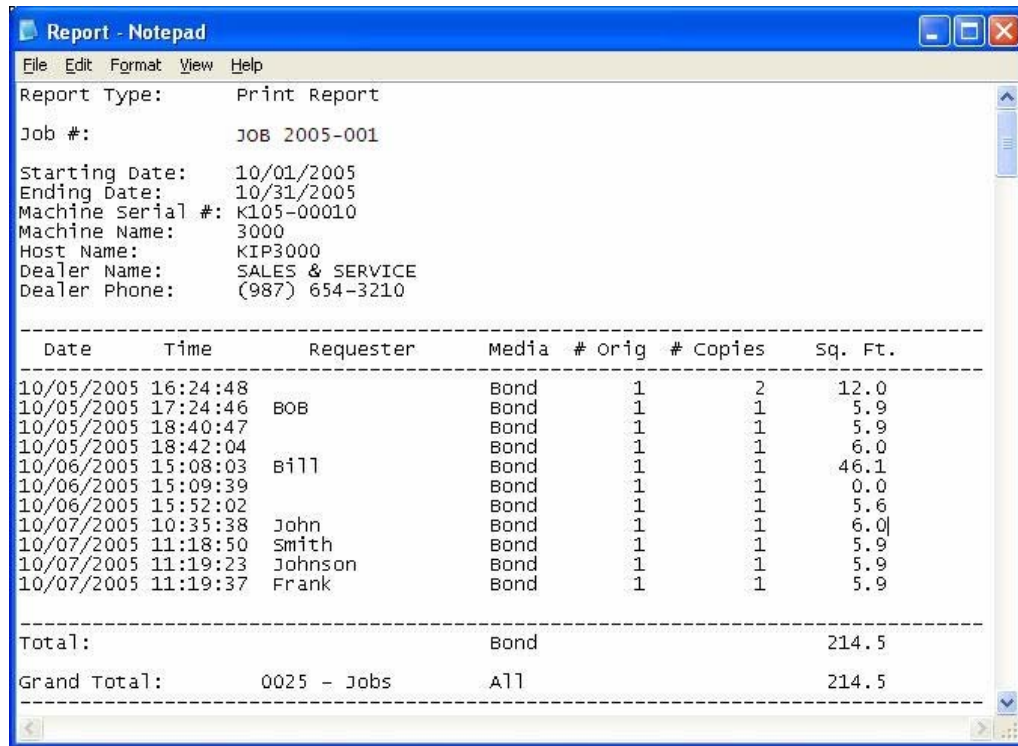


- b) The Following window will appear. This is where the currently selected printer information will be displayed. There are three different types of reports that can be generated from this screen:
  - Printing
  - Scanning
  - Meter Reading



## 2.1 **Printing**

This report will include both prints and copies that have been sent to the 3000 print engine. The report will include Date, Time, Requester, Media, # of originals, # of Copies and Sq. Feet. The information for Requester and Job Number shown below are gathered from all KIP printing applications. The user can select the Start Date and the End Date of the report along with where to print the report. The report can be sent directly to the default printer attached to the PC generating the report to Microsoft Notepad (or other ASCII reader) or to any file location accessible to the generating workstation.



Report Type: Print Report						
Job #: JOB 2005-001						
Starting Date: 10/01/2005						
Ending Date: 10/31/2005						
Machine Serial #: K105-00010						
Machine Name: 3000						
Host Name: KIP3000						
Dealer Name: SALES & SERVICE						
Dealer Phone: (987) 654-3210						
Date	Time	Requester	Media	# Orig	# Copies	Sq. Ft.
10/05/2005	16:24:48		Bond	1	2	12.0
10/05/2005	17:24:46	BOB	Bond	1	1	5.9
10/05/2005	18:40:47		Bond	1	1	5.9
10/05/2005	18:42:04		Bond	1	1	6.0
10/06/2005	15:08:03	Bill	Bond	1	1	46.1
10/06/2005	15:09:39		Bond	1	1	0.0
10/06/2005	15:52:02		Bond	1	1	5.6
10/07/2005	10:35:38	John	Bond	1	1	6.0
10/07/2005	11:18:50	Smith	Bond	1	1	5.9
10/07/2005	11:19:23	Johnson	Bond	1	1	5.9
10/07/2005	11:19:37	Frank	Bond	1	1	5.9
Total:			Bond			214.5
Grand Total:			0025 - Jobs	All		214.5

## 2.2 Scanning

This report will include all files that have been scanned to file using the Scan Mode of the 3000 UI. The report will include Date, Time, Requester, Location, Type, Format and Sq. Feet. The information for Requester shown below is gathered from all KIP printing applications. The user can select the Start Date and the End Date of the report along with what to do with this data. The report can be sent directly to the default printer attached to the PC generating the report to Microsoft Notepad (or other ACSII reader) or to any file location accessible to the generating workstation.

Report - Notepad

File Edit Format View Help

Report Type: Scan Report

Job #: JOB 2005-001

Starting Date: 10/01/2005

Ending Date: 10/31/2005

Machine Serial #: K105-00010

Machine Name: 3000

Host Name: KIP3000

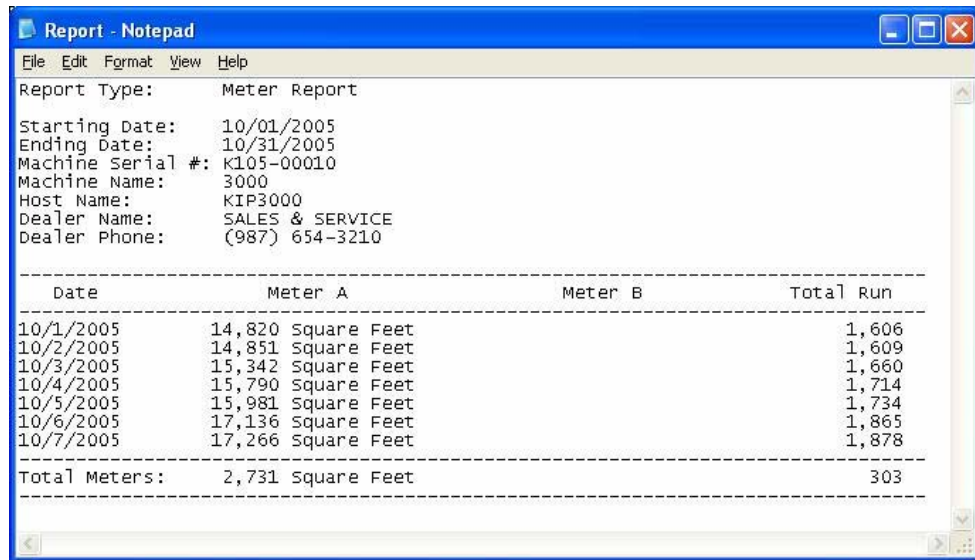
Dealer Name: SALES & SERVICE

Dealer Phone: (987) 654-3210

Date	Time	Requester	Location	Type	Format	Sq. Feet
10/05/2005	14:36:27	Smith	Project1	FTP	PDF	6.1
10/05/2005	14:38:08		Project1	RESCANFTP	TIF	6.1
10/05/2005	14:38:45		Project1	FTP	CAL	6.1
10/05/2005	14:40:29	Bob	Project1	RESCANFTP	CAL	6.1
10/05/2005	14:43:20		!Default	SCAN	PDF	6.1
10/05/2005	14:45:07		!Default	SCAN	TIF	6.1
10/05/2005	14:45:54		!Default	SCAN	TIF	6.1
10/05/2005	14:46:59	Bill	Bill	SCAN	CAL	6.1
10/05/2005	14:47:35		!default	SCAN	CAL	6.1
10/05/2005	14:48:12	Bill	Bill	SCAN	CAL	6.0
10/05/2005	14:49:20		!Default	SCAN	CAL	6.0
10/05/2005	14:52:40		!Default	SCAN	TLC	6.1
10/05/2005	14:54:02		!Default	SCAN	TIF	6.1
10/05/2005	14:54:32		Job 2005-001	SCAN	TIF	6.0
10/05/2005	14:55:10	User	Job 314	SCAN	TIF	6.1
10/05/2005	14:55:45	User	Job 314	SCAN	TLC	6.1
10/05/2005	14:56:08	User	Job 314	SCAN	TLC	8.8
10/05/2005	14:56:31	User	Job 314	RESCAN	TLC	6.1
10/05/2005	14:57:23		Job 2005-001	SCAN	TIF	6.1
10/05/2005	14:58:16		Job 2005-001	SCAN	TIF	6.2
10/05/2005	14:58:44		Job 2005-001	SCAN	TIF	6.1
10/07/2005	09:54:22	Frank	Project001	FTP	TIF	6.3
Grand Total:		0026 - Jobs	All			161.6

### 2.3 **Meter Reading**

This report will include daily Meter readings from the desired dates set in the Start Date and End Date. The report will include Date, Meter A, Meter B (**KIP 8000 Only**) and Total run. This meter reading should closely match the actual meter reading on the KIP 3000 printer. The user can select the Start Date and the End Date of the report along with what to do with this data. This report is calculated once per hour or when the KIP 3000 is started. The report can be sent directly to the default printer attached to the PC generating the report to Microsoft Notepad (or other ACSII reader) or to any file location accessible to the generating workstation.



Report Type:	Meter Report		
Starting Date:	10/01/2005		
Ending Date:	10/31/2005		
Machine Serial #:	K105-00010		
Machine Name:	3000		
Host Name:	KIP3000		
Dealer Name:	SALES & SERVICE		
Dealer Phone:	(987) 654-3210		
<hr/>			
Date	Meter A	Meter B	Total Run
<hr/>			
10/1/2005	14,820 Square Feet		1,606
10/2/2005	14,851 Square Feet		1,609
10/3/2005	15,342 Square Feet		1,660
10/4/2005	15,790 Square Feet		1,714
10/5/2005	15,981 Square Feet		1,734
10/6/2005	17,136 Square Feet		1,865
10/7/2005	17,266 Square Feet		1,878
<hr/>			
Total Meters:	2,731 Square Feet		303
<hr/>			

## 3.0 Automated Metering

---

### Overview

The PrintNet software built into every KIP IPS includes the ability to automatically generate reports that covers a complete month of copying, scanning, and network printing. The automatic generation of Monthly Meter reports is designed to provide simple cost recovery information and general meter readings from the Log data that is stored on the IPS. The timing of the report can be triggered on a specific day of the week or day of the month (beginning, middle or end) at a specific time. The report form is customizable and allows the manager to decide the content of the report. For example, the report can be as simple as a single meter reading or it can be comprehensive and include two different meters as well as information on copy, scan, and network printing volumes. A PDF version of the monthly report is included to ensure easy portability.

### 3.1 Configuration of the Monthly Meter Report

The configuration of the Monthly Meter Report is completed via web browser to the IP address of the KIP Printer. Only the “admin” login can be used to change or generate the Monthly Meter Reports. The default login when the system arrives from KIP is “admin” and the password is “kip”. This can be changed after logging in as “admin” in the KIP Users area of PrintNET.

**Important Note:** If the “admin” account and password are not part of the accounting data that is configured in KIP Request and pushed to the IPS, then the login will not be possible. Please be sure that if you are pushing accounting data to the IPS from KIP Request that the “admin” account is included as one of the entries.

### 3.2 Process for configuring Monthly Meter Report

a) Connect to IP address of KIP printer using a web browser.

b) Login as “admin”, select the  icon to enter the **Email Settings** area.

c) Configure the **SMTP** email settings in the **Email Setting** area.

**Important Note:** The email settings must work properly first for the Monthly Meter Report to function. The email settings for SMTP Server, Username and Password are available from the IT administrator.

d) Configure the Monthly Meter Report Settings. Use a “right-click” to view the macros that can be used within the report. After choosing a macro, the text for that macro will show in the report. Eg: {CURRENT\_COPYING} is the macro for obtaining the copy volume within the report.

e) Save the settings – choose the “Submit” to save the settings.

f) Test the Report Generation – choose “Send Now” to test the settings or to generate an instantaneous report.

### 3.3 Different Types of Meters

Various printing, copying, and scan-to-file meters are available within the automated report:

a) **Meter A** that totals the overall number of Square Feet or Linear Feet of printing and copying that has occurred.

b) **Meter B** is a secondary meter for the KIP 8000.

- c) The **Total Run** is a meter that covers the overall total linear amount of media has been fed through the machine over the life of the printer.
- d) The **Copy** and **Network Printing** meters individually capture the number of square feet for copying and network printing volumes.
- e) The **Scan-to-file** meter captures the number of square feet for documents that are scanned to any of the available file formats.

### 3.4 Report Schedule

The Generate Schedule area of the Monthly Meter Report that allows the manager to set the time period for how often the report is automatically created. The report can be scheduled to print every week or once a month. Please note that the printer and IPS have to be powered ON and connected to the network in order for the scheduled report to be automatically generated on the scheduled date.

Choices for the “Generate Schedule” feature:

- **Weekly:**

The IPS will email the report automatically on the **Day of the week** at the specified **Time of Day**. Choose the day of the week (**Monday – Sunday**) and **time**. At this setting, 4-5 reports are automatically generated per month

OR

- **Monthly:**

The IPS will email the report automatically on the **Day of the Month** at the specified **Time of Day**. Setup of the feature allows for choosing which day from the 1<sup>st</sup>, 15<sup>th</sup>, or last calendar day of the month and time. At this setting, 1 report will be automatically generated per month on the scheduled date.

### 3.5 Email Address Support

The Monthly Meter Report can be emailed to several types of email addresses simultaneously. For example, the report could be sent to a local email address while at the same time sent to a cell phone. Each email address needs to be separated by a semi-colon. The “send now” feature is the best test to confirm that the IT administrator provided the correct SMTP connections and is allowing the IPS to send emails to the specific email addresses.

### 3.6 IPS Log Data

In addition to a PDF of the Monthly Meter Report, the raw log data used in creating the report can be delivered as an attachment to the email address. There are three types of comma delimited ASCII data used in creating the report:

- a) Copy and Network Printing Log – named MMMYY.log such as Aug06.log.
- b) Scan-to-file log – named STFMMMYY.log such as STFAug06.log
- c) Meter Reading log – named MeterMMMYY.log such as MeterAug06.log.

### 3.7 Macros available via “right-click” to include in the Monthly Meter Report:

- **Printer Name** – Computer name of KIP IPS
- **Printer Serial Number** – entered at IPS Service UI
- **IP Address** – IP address of KIP IPS
- **Meter Reading Date** – date that report was generated based on the date setting on the KIP IPS.
- **Meter Reading Time** – time that report was generated base on the time setting on the KIP IPS.
- **Meter A** – Meter A measures the square footage of all

Printer Name
Printer Serial Number
IP Address
Meter Reading Date
Meter Reading Time
Meter A
Meter A Unit
Meter B
Meter B Unit
Copy
Network Print
Scan
Total Run



printing and copying and generally matches the mechanical meter on the front of the machine. Meter A can be reset or adjusted by a Service Technician in the Service Mode settings as shown in the Service Manual (Chapter 8) “Software Counter”. The Meter A information is read directly from the printer and stored in the MeterMMYY.log in the specified value set in the Service Settings.

- **Meter A Unit** – the value of Meter A can be either Linear Feet or Square Feet. The factory default is Square Feet which can also be changed by a service technician in the Service Settings – Counter Setting. The Meter A unit of measure is read directly from the printer and stored in the MeterMMYY.log in the specified value set in the Service Settings.
- **Meter B and Meter B Unit** – same function as Meter A, but is a second meter only available on the KIP 8000.
- **Copy** – places into the report the Copy volume for the past 1 month. For example, if today is 8/23 at 4 pm, the Copy volume will cover from 7/23 at 4 pm up to 8/23 a 4 pm. This measurement includes all copying functions performed via the touch screen of the KIP IPS. Data reported will always be in Square Feet. The raw log data contains the word “copy” embedded in the MMYYY.log on the KIP IPS.
- **Network Print** – places into the report the Network Printing volume for the past one month. All items that’s are considered network printing have the word “request” embedded in the MMYYY.log on the KIP IPS. This includes all items sent from the KIP Request, KIP PrintNET, Windows Driver, AutoCAD Driver, and data sent via LPR from Windows/Unix/Apple networks. Data reported will always be in Square Feet.
- **Scan** – places into the report the Scan-to-file volume for the past one month. All items that are considered scan-to-file are extracted from the STFMMYY.log on the KIP IPS.
- **Total Run** – the value of the Total Run is always in Linear Feet. The Total Run meter is read directly from the printer and stored in the MeterMMYY.log in linear meters, but converted to linear feet for the reports.

Shown below is a sample of the configuration menu:

The screenshot shows a software window titled "Email Settings" with a tab labeled "Monthly Meter Report". Inside the window, there is a section titled "Monthly Meter Report Settings".

**Recipients:** A text field containing "BSmith@kipamerica.com".

**Subject:** A text field containing "Monthly Meter Report from {PRINTER\_NAME}, serial number: {PRINTER\_SERIAL\_NUMBER}".

**Body:** A large text area containing a template email body. The text starts with "Please be advised that as of {CURRENT\_METER\_DATE} at {CURRENT\_METER\_TIME} the {PRINTER\_NAME}, IP Address: {PRINTER\_IP}, serial # {PRINTER\_SERIAL\_NUMBER} meter readings are {CURRENT\_METER\_A} {CURRENT\_METER\_A\_UNIT} and {CURRENT\_METER\_B} {CURRENT\_METER\_B\_UNIT} for copying and network printing". Below this, it lists "Copying: {CURRENT\_COPYING} sq. feet", "Networking Printing: {CURRENT\_NETWORK\_PRINTING} sq. feet", and "Scan-to-file: {CURRENT\_SCAN\_TO\_FILE} sq. feet".

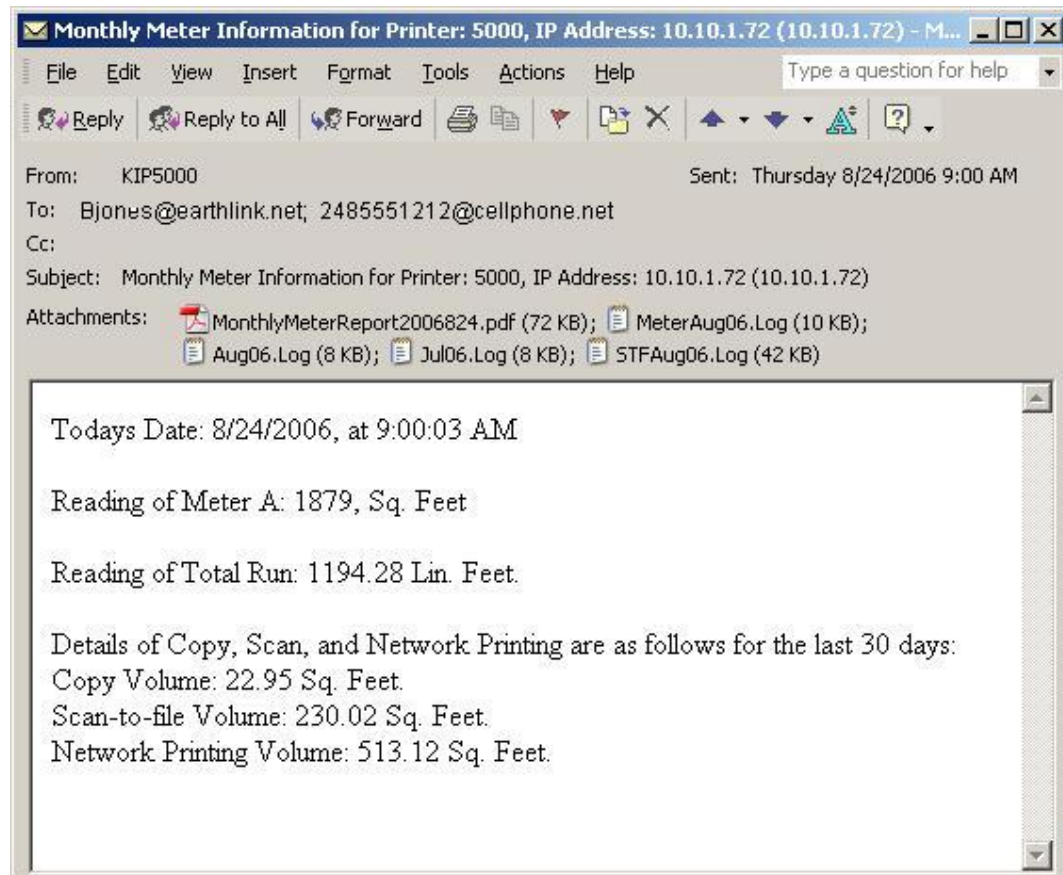
**Generate Schedule:** A section with four dropdown menus: "Period:" set to "Weekly", "Day of Month:" set to "Middle Of Month", "Day of Week:" set to "Monday", and "Time:" set to "12:00". There is also a checkbox labeled "Attach Raw Log File" which is checked.

At the bottom right of the dialog are two buttons: "Send Now" and "Submit".



### 3.8 Sample Report:

This is an example of a Monthly Report that contains meter readings and details of copy, scan-to-file, and network printing volume. The email was sent to a local email account as well as to a cell phone/PDA. A PDF of the report is automatically included. The raw log data that was used to compile the report is also included as attachments to the email. The raw log data can be used



## 4.0 Automatic Email Reports


### Overview

An e-mail notification system can be activated which will provide printer status information to any accessible email address. The KIP IPS utilizes the same SMTP email settings to send the email notifications. In the event that the paper or toner supply is depleted, designated users may have email alerts sent to their choice of PC, laptop, PDS, or cell phone based emails. The IPS is capable of sending an email whenever the following events occur:

- Printer: out of toner.
- Printer paper jam.
- Printer of out media.

The screenshot shows the 'Email Settings' window with the 'Printer Error Message' tab selected. The 'Recipients' field contains 'BSmith@kipamerica.com;admin@kipamerica.com'. The 'Subject' field contains 'KIP Printer Status - {DATE\_TIME}, KIP Printer:{PRINTER\_IP}, Printer Condition: {EVENT\_MESSAGE}'. The 'Body' field contains a template message: 'Please be advised that on {DATE\_TIME}, the KIP Printer at IP address: {PRINTER\_IP} produced the following condition: Printer Condition:{EVENT\_MESSAGE} Meter Reading:'. A context menu is open over the 'Meter Reading:' field, showing options: 'Date/Time', 'Event Message', 'Printer Name', 'Printer Serial Number' (highlighted), 'IP Address', 'Dealer Name', and 'Dealer Phone Number'. At the bottom, the 'Events' section has a checked box for 'Printer out of toner' and an unchecked box for 'Printer Jams'. 'Send Now' and 'Submit' buttons are at the bottom right.

### 4.1 Process for Configuration of Email Report for Printer Error Messages

- Connect to the IP address of the KIP printer using a web browser.
  - Login as “admin”, select the  icon to enter the **Email Settings** area.
  - Configure the **SMTP** email settings in the **Email Setting** area.
- Important Note:** The email settings must work properly first for the Printer Error Message to function. The email settings for SMTP Server, Username and Password are available from the IT administrator.
- Configure the Printer Error Message email settings. Use a “right-click” to view the macros that can be used within the report. After choosing a macro, the text for that macro will show in the report. For example, {EVENT\_MESSAGE} is the macro for placing the printer error message that has occurred (Printer Jam or Printer out of toner).
  - Save the settings – choose the “Submit” to save the settings.
  - Test the Report Generation – choose “Send Now” to test the settings or to generate an instantaneous report.

#### 4.2 Email Address Support.

The Printer Error Message can be emailed to several types of email addresses simultaneously. For example, the report could be sent to a local email address while at the same time sent to a cell phone. Each email address needs to be separated by a semi-colon. The “send now” feature is the best test to confirm that the IT administrator provided the correct SMTP connections and is allowing the IPS to send emails to the specific email addresses.

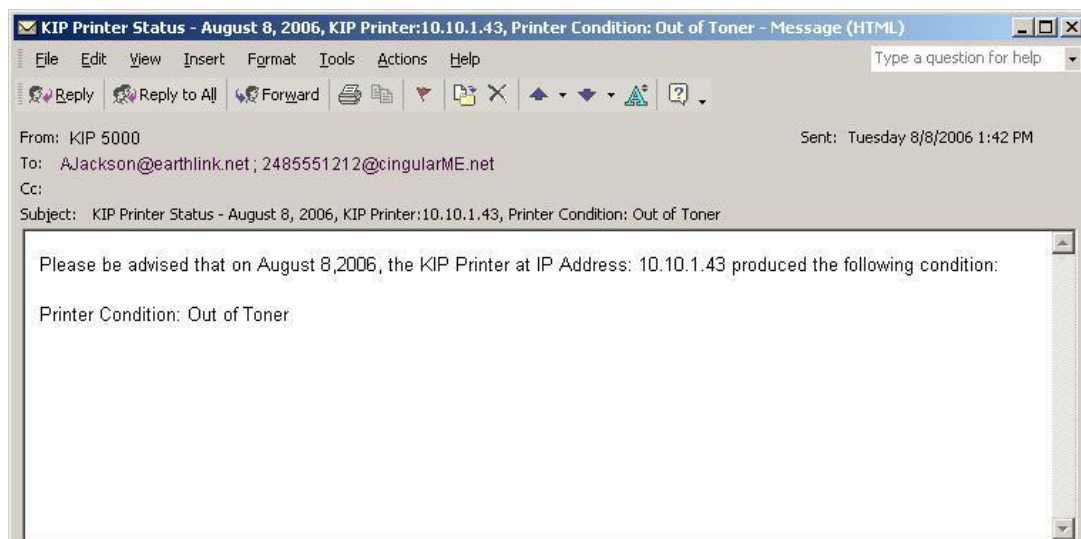
#### 4.3 Macros available via “right-click” to include in the Monthly Meter Report:

- **Date/Time** – Date and Time the message was generated by the IPS.
- **Event Message** – generic term for any of the three issues that could occur:
  1. Printer: out of toner.
  2. Printer paper jam.
  3. Printer of out media.
- **Printer Name** – Computer name of KIP IPS.
- **Printer Serial Number** – entered at IPS Service UI and stored in the Winuntd.ini of the Print Queue software.
- **IP Address** – IP address of KIP IPS.
- **Dealer Name** – entered at the IPS Service UI and stored in the Winuntd.ini of the Print Queue software.
- **Dealer Phone Number** – entered at the IPS Service UI and stored in the Winuntd.ini of the Print Queue software.



#### Sample Email

The following is a sample email that was received from a KIP printer after the condition of Out of Toner occurred. The email was sent to a local email address as well as to a cell phone/PDA.



## Section 13

# Connectivity

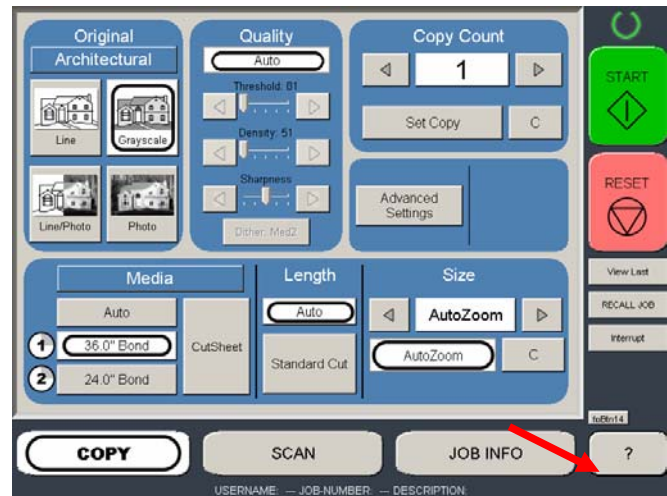
	Page
<b>1.0 Set IP Address</b> .....	13- 2
1.1 Enter Configuration Mode .....	13- 2
1.2 TCP/IP Properties .....	13- 3
1.2.1 DHCP / Manual IP assignment .....	13- 4
1.2.2 DHCP / Manual DNS assignment .....	13- 5
1.2.3 DHCP / Manual WINS assignment .....	13- 6
1.2.4 Apply Settings .....	13- 7
1.3 Exit Configuration Mode .....	13- 7
<b>2.0 Appendix</b>	
Applications - Diagram A	
Applications - Diagram B	
Connectivity - Diagram C	
A – Printing from Microstation	
B – Printing from MAC OS 9	
C – Printing from Mac OS X	
Terminology and Base KIP Function	

# 1.0 IP Addressing

## 1.1 Configuration Mode

To access and set the IP address:

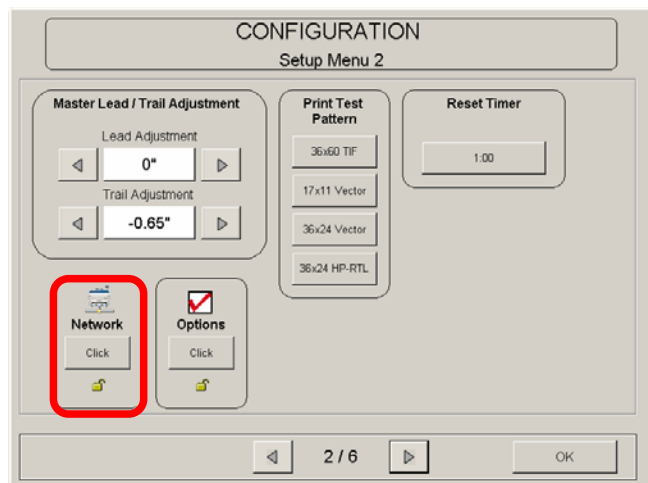
- a) Press the “?” button on the Operator Panel



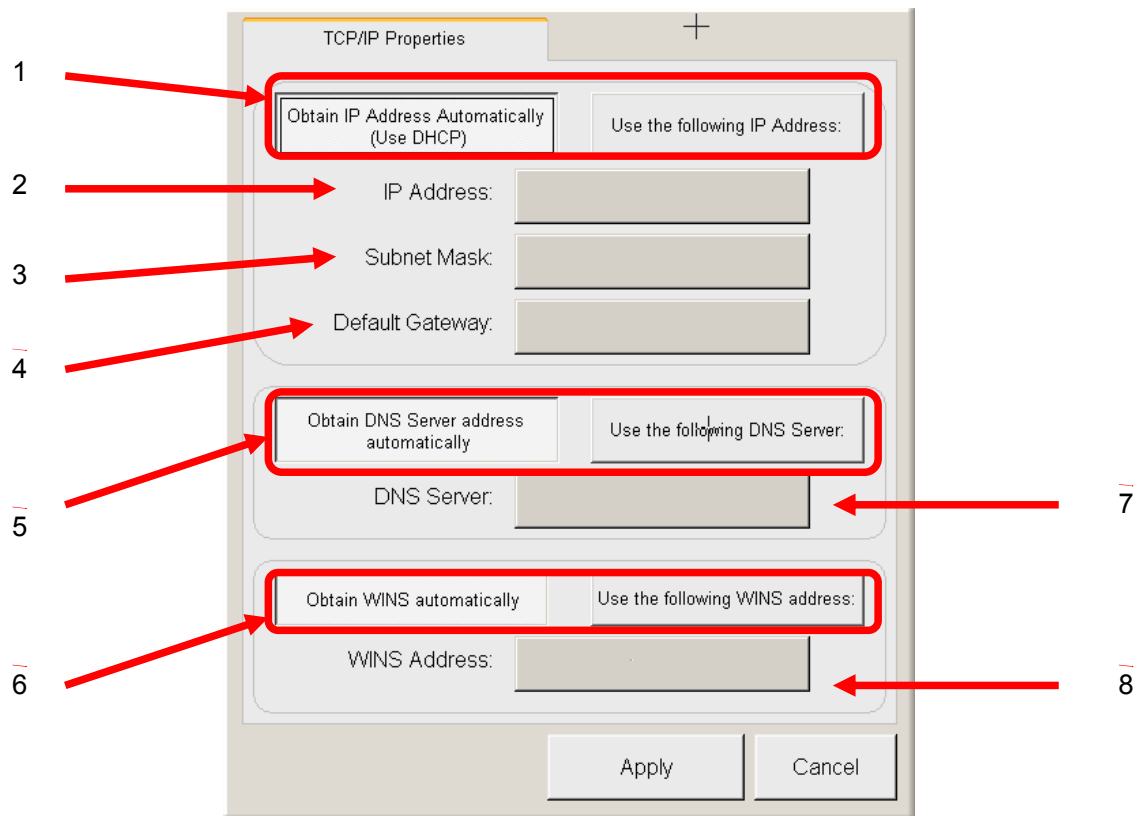
- b) Then press the “Configuration” button



- c) Enter “Setup Menu 2” and locate “Network”
- d) Click “Network” to enter TCP/IP Properties Page. Please note that if the settings are locked a Certified Service Technician must grant access this feature



## 1.2 TCP/IP Properties



No.	Name	Function
1	IP Setting	Selects DHCP assigned IP address or manually assigned address
2	IP Address	Displays IP address
3	Subnet Mask	Displays Subnet Mask
4	Default Gateway	Displays Gateway
5	DNS Setting	Selects DHCP assigned DNS address or manually assigned DNS address
6	WINS Setting	Selects DHCP assigned WINS address or manually assigned WINS address
7	DNS Address	Displays DNS address
8	WINS Address	Displays WINS address

### 1.2.1 DHCP / Manual IP Assignment

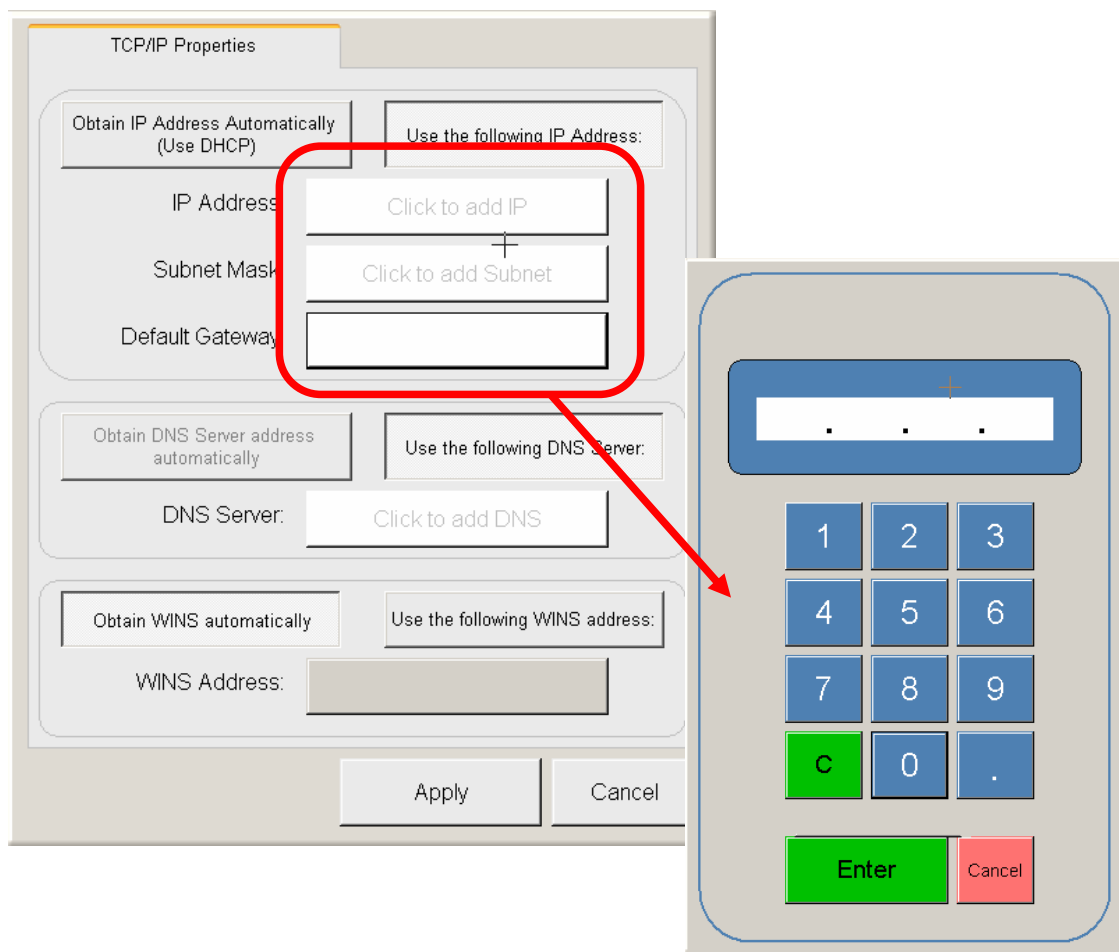
- a) Press “Use DHCP” button for DHCP to assign IP address

Obtain IP Address Automatically  
(Use DHCP)

- b) Press “Use Following IP Address” button to enter IP address manually

Use the following IP Address:

- c) Enter desired IP Address, Subnet Mask, and Gateway



## 1.2.2 DHCP / Manual DNS Assignment

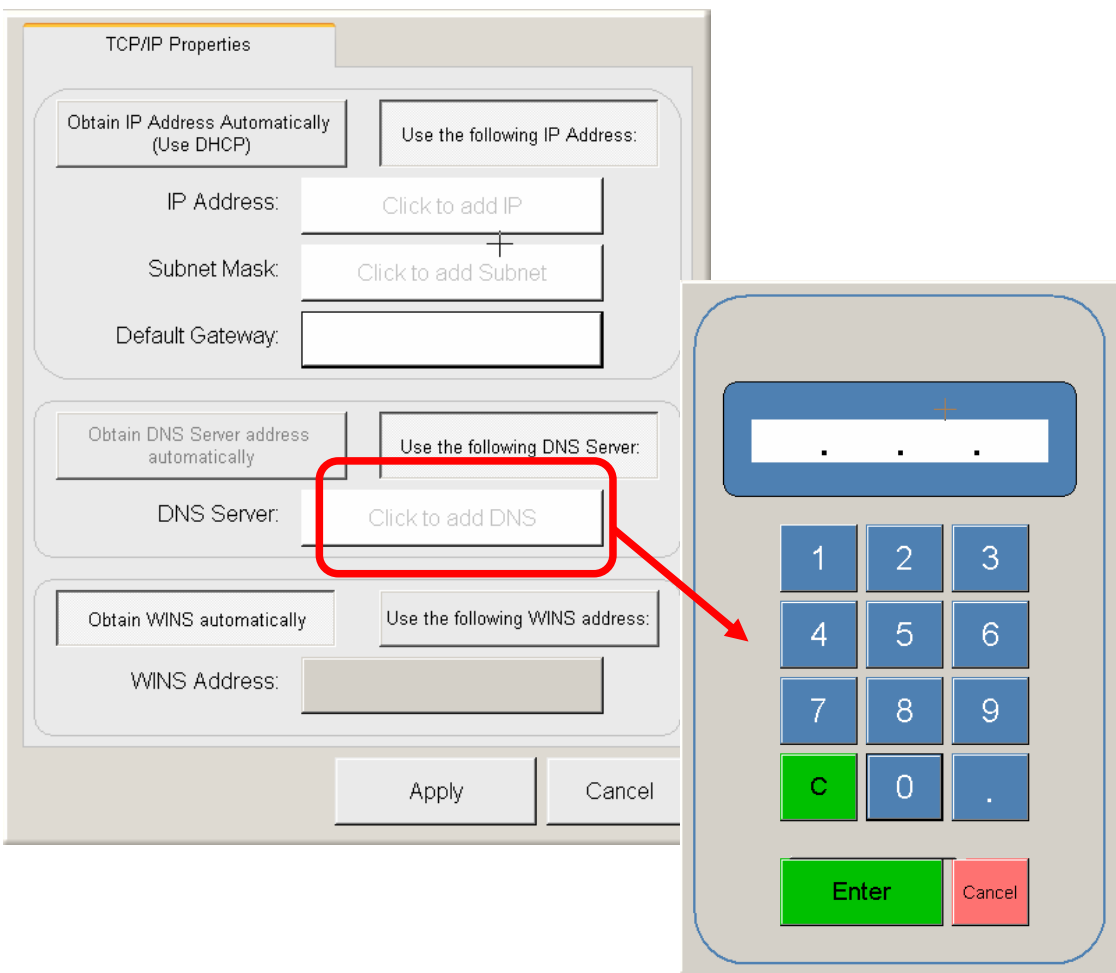
- a) Press “Obtain DNS” button for DHCP to assign DNS address

Obtain DNS Server address automatically

- b) Press “Use the following DNS” button to enter DNS address manually

Use the following DNS Server:

- c) Enter desired DNS Address





### 1.2.3 DHCP / Manual WINS Assignment

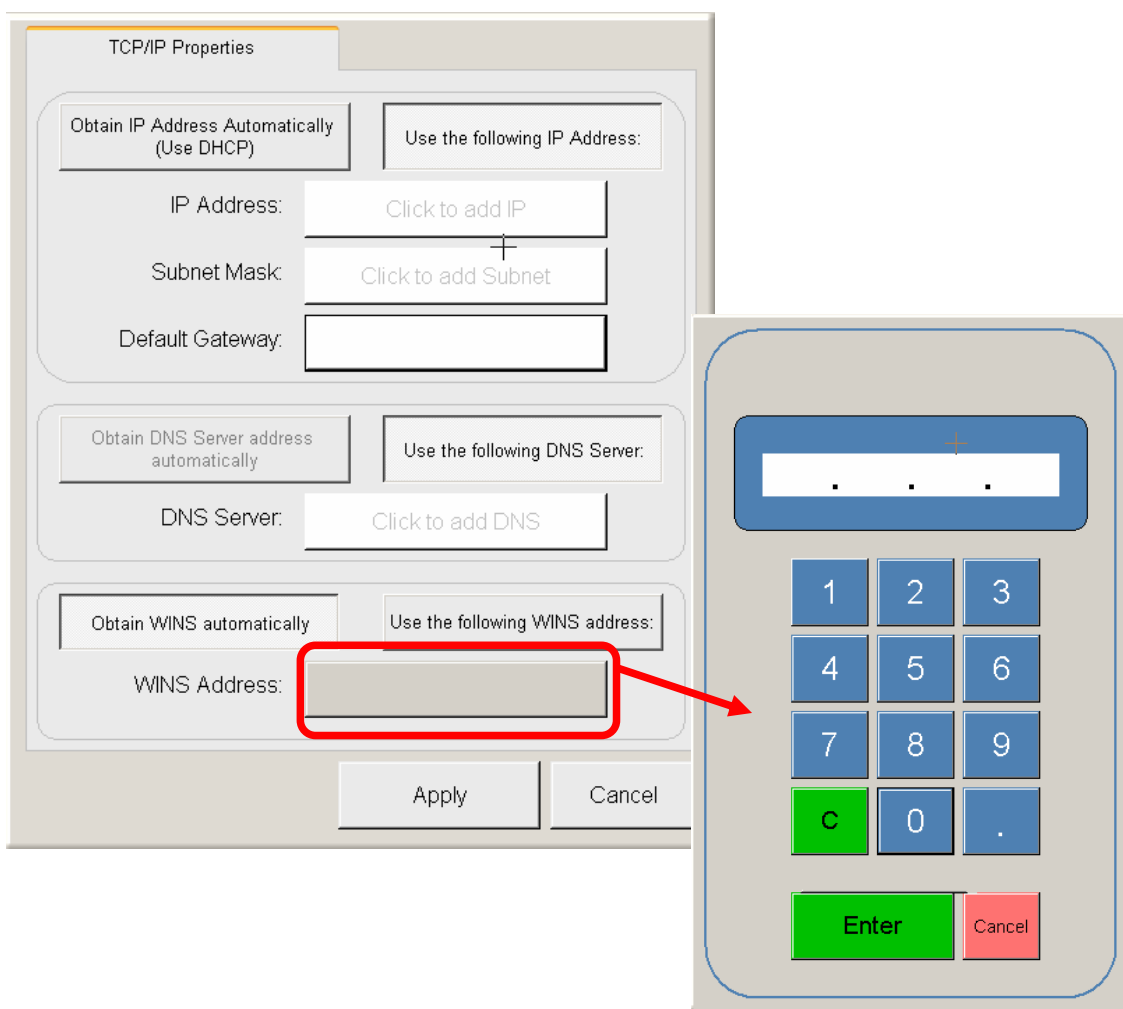
- a) Press “Obtain WINS” button for DHCP to assign WINS address

Obtain WINS automatically

- b) Press “Use the following WINS” button to enter WINS address manually

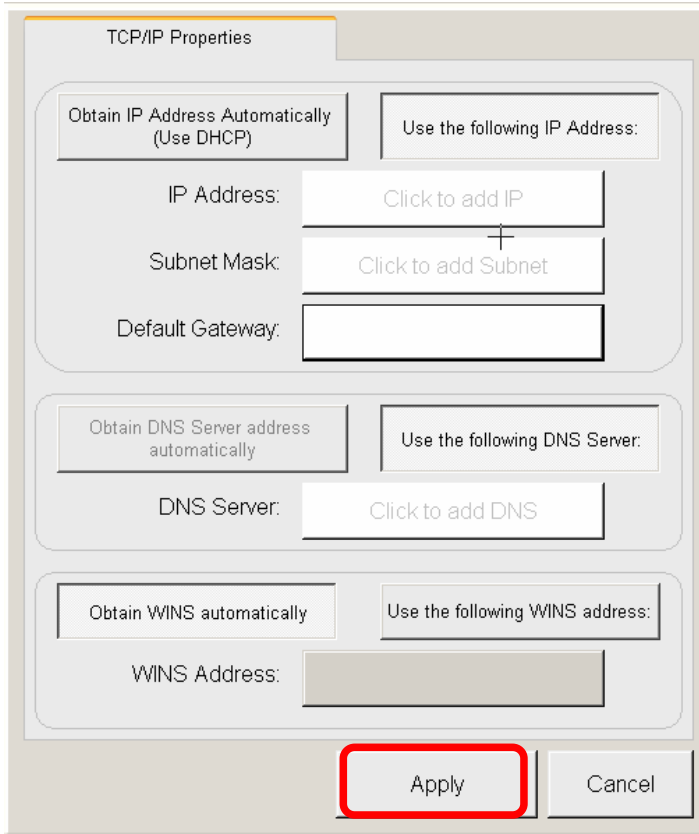
Use the following WINS address:

- c) Enter desired WINS address



### 1.2.4 Apply Settings

- a) Select “Apply” button to accept IP addressing information.



The image shows the 'TCP/IP Properties' dialog box. It has three sections: IP Address, DNS Server, and WINS. Each section has a checkbox for automatic configuration and a text box for manual configuration. The 'Apply' button at the bottom is highlighted with a red rectangle.

TCP/IP Properties

Obtain IP Address Automatically (Use DHCP) | Use the following IP Address:

IP Address: Click to add IP

Subnet Mask: Click to add Subnet

Default Gateway:

Obtain DNS Server address automatically | Use the following DNS Server:

DNS Server: Click to add DNS

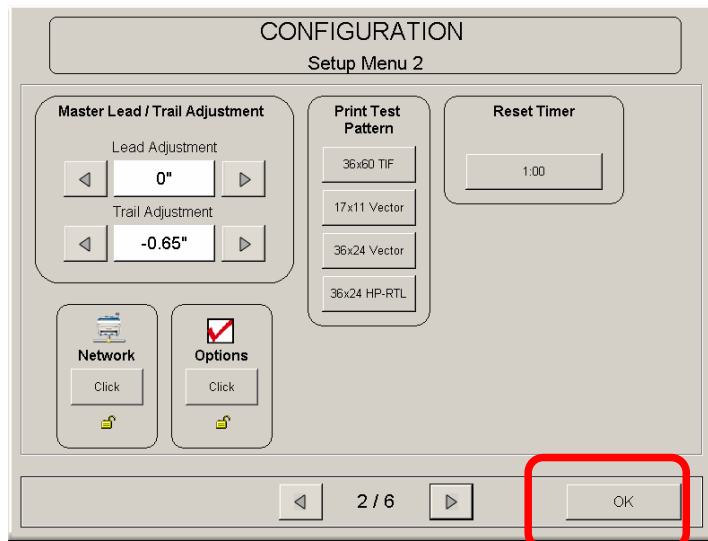
Obtain WINS automatically | Use the following WINS address:

WINS Address:

Apply | Cancel

## 1.3 Exit Configuration

- a) Select “OK” button to exit Configuration Menu



The image shows the 'CONFIGURATION Setup Menu 2' dialog box. It has three main sections: Master Lead / Trail Adjustment, Print Test Pattern, and Reset Timer. The 'OK' button at the bottom right is highlighted with a red rectangle.

CONFIGURATION  
Setup Menu 2

Master Lead / Trail Adjustment

Lead Adjustment: 0"

Trail Adjustment: -0.65"

Print Test Pattern

36x60 TIF

17x11 Vector

36x24 Vector

36x24 HP-RTL

Reset Timer: 1:00

Network | Options

Click | Click

2 / 6 | OK

# Connectivity - Appendix A

## Printing from MICROSTATION to the KIP Printer

There are 2 methods to print from MICROSTATION to the KIP Printer.

### Method 1 - Recommended

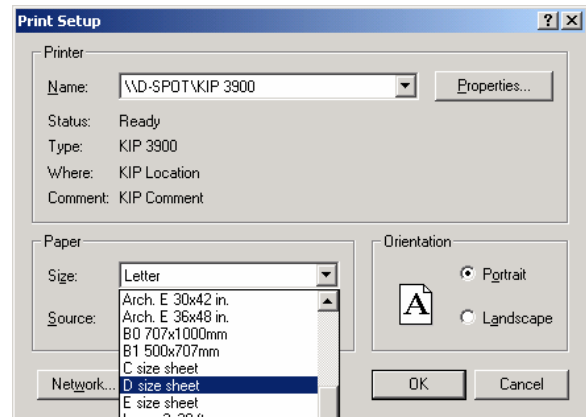
#### Printing from MICROSTATION using the KIP Windows Printer driver

Convert the drawing file data into raster data using the KIP Windows driver. Inside MICROSTATION, choose “Printer.PLT” as the driver to use the KIP windows driver. The KIP windows driver, however, should be the “Default” printer on the system at this time. The driver inside MICROSTATION will use the device properties as set for the KIP Windows printer, including dither patterns, paper settings, etc.

Simply choose “Printer.plt” as the driver to use the KIP Printer by default from MICROSTATION. Click on ‘Page’ and select properties of the KIP Windows driver

**Click on ‘Plot’ to complete printing using the KIP Windows driver**

See “Windows Driver – Section 6” for details on driver installation.



### Method 2 – Not Recommended

#### Use an HPGL-2 driver from within MICROSTATION

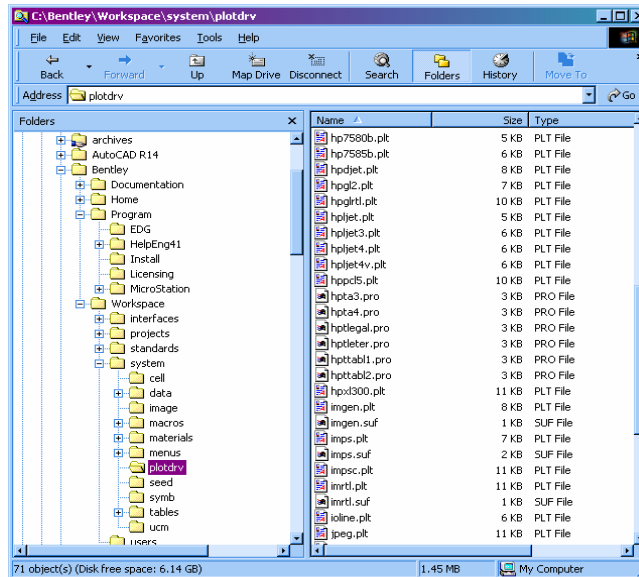
Use an HPGL-2 compatible driver (**IMRTL.PLT**) from within MICROSTATION to generate plot file data (.PLT). Using this method, users have 2 choices of sending data to the Printer.

a) Point the output path of the ‘IMRTL.plt’ driver directly to the KIP ‘Port’ (for more information regarding the KIP ‘Port’, please refer to the windows driver section) on the KIP Controller.

b) The .PLT files created by the driver can be viewed within the Request software and printed in collated sets with enhanced features like using stamps, header information and Pen settings.

### **Setting up the HPGL-2 parameters to create KIP Printer ready data file**

- Using windows explorer, identify folder where MICROSTATION software is installed.
- Under the sub-folder 'PLOTDRV' select '**IMRTL.PLT**'. Open this file with Windows 'Notepad'.



- **Editing the “IMRTL.PLT” file:**

**The line that requires a change is marked below in bold.**

For an example, we will assume that the MICROSTATION User requires to print to a KIP **3000** Printer. We will also assume the Computer name to be “**KIP-PPC**”.

#### **Method 2 : Direct Print**

Since the Port would be set up automatically with the change as on the next page, users would be able to use this driver (KIPGL.PLT) to create plot file data directly to the KIP controller

#### **Method 2 : Request Print**

Generate the plot file data (.PLT) at any specified location on the system using the method above. Use KIP Request to select the “.plt” files and submit them for printing. File collation, stamping, header information addition, etc are features the users could use while using the KIP Request software.

; MICROSTATION starts counting pens at 1, so even though the HP 650c has  
; pens 0 through 255, pen 0 is not used by MICROSTATION.

```
num_pens   = 255      ; Defines pens used - max value is 255
change_pen = both     ; options are color, weight, level or both
model      = mdl      ; plotter model
driver     = hmrhpgl2  ; MDL driver to use
autocenter ; Automatically center plot on page
end_plot   = eject    ; Performs page eject
rotate     = none     ; enable/disable automatic rotation to maximize
                        ; plots: cw = rotate clockwise, ccw = rotate
                        ; counter-clockwise, none = disable
                        ; default_extension/auto_incExt = '000'
                        ; default extension for plotfiles
```

;  
; To configure a default output file name comment out the default\_extension  
; line above and uncomment this line. "lpt1" may be substituted with any  
; desired filename - e.g. "\$(MS\_PLTFILES)plotfile.000"

**default\_outFile/auto\_overwrite = "lpt1"**

; Substitute the name of a pentable file to be loaded when this driver is  
selected

;pentable=\dir\file.tbl

border/pen=1/filename/time ; leave this out for no border

; communication=(handshake=0,baud=9600,par=none,data=8,stop=1)

*This line above, should be:*

**default\_outFile/auto\_overwrite = \\Computername\Shared printer driver  
name\**

or as in example using 'KIP-PPC' as the Computer name and 'KIP3000' as  
the shared printer driver name:

**default\_outFile/auto\_overwrite = \\KIP-PPC\KIP3000**

Once the changes are made, the user could overwrite the file with the same  
filename, or could save the new file as 'KIPGL.PLT'.



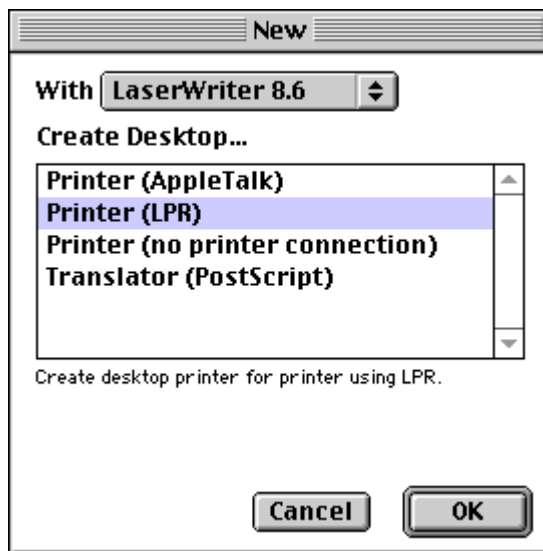
# Connectivity - Appendix B

## Configuring a TCP/IP Desktop Printer for Mac OS 9

The Apple [Desktop Printer Utility](#) is required for TCP/IP printing. This utility allows the user to configure a desktop printer by specifying the type of printer being used and its IP address.

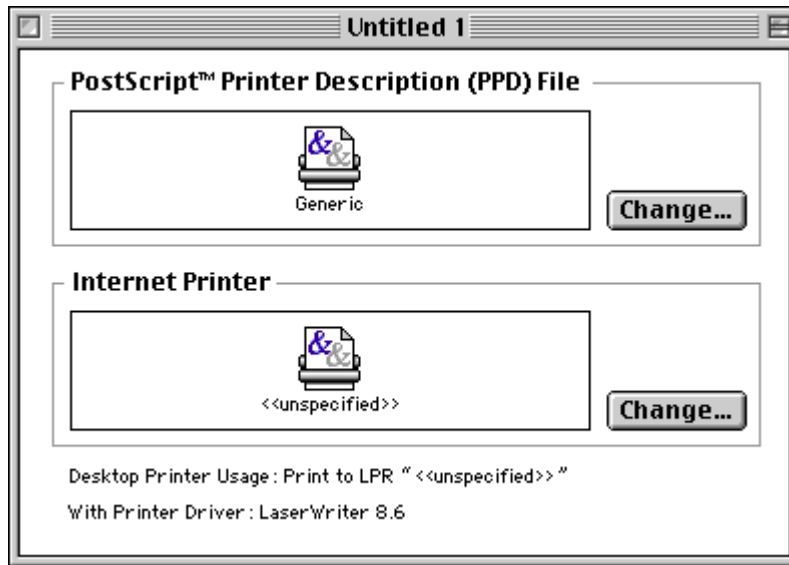
To configure the desktop printer, do the following steps:

1. Open the Desktop Printer Utility. The following dialog box should appear:

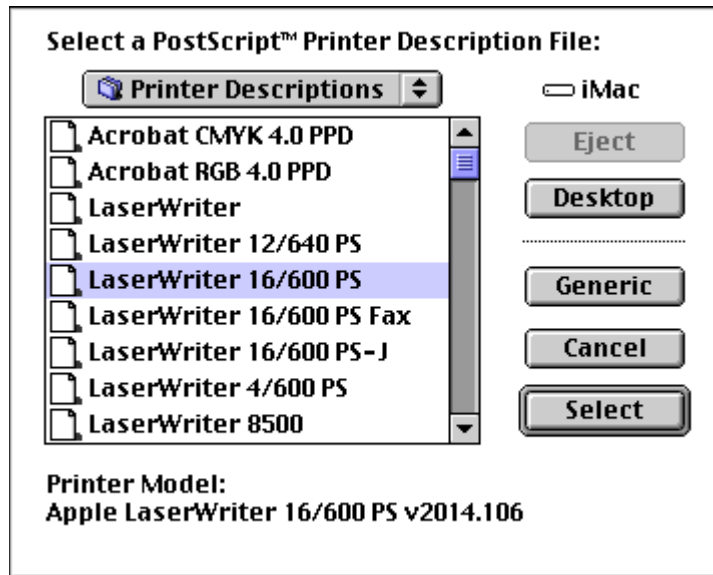


- a. Select the printer driver you wish to use (LaserWriter 8.5.1 or later) in the popup menu;
- b. Select the "Printer (LPR)" to specify TCP/IP printing;
- c. Click OK.

2. A new dialog should appear:

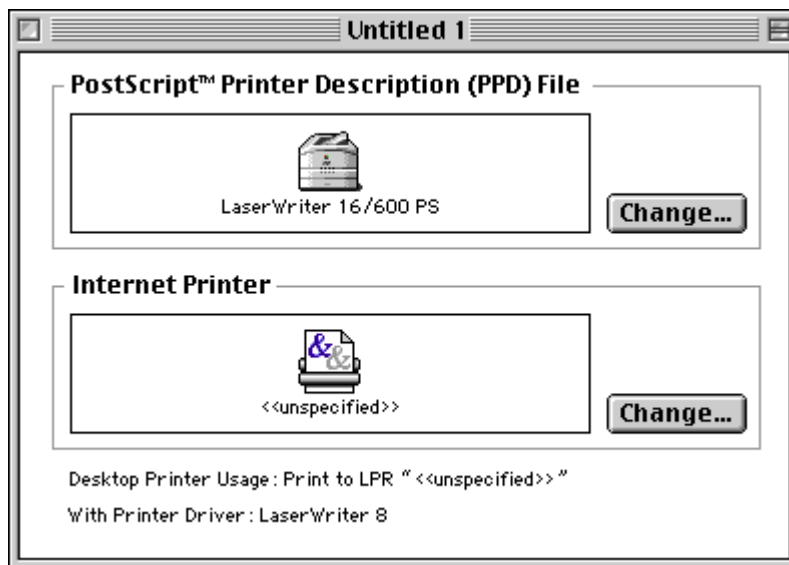


3. Under "PostScript™ Printer Description (PPD) File," click Change. A list of Printer Description files should appear. Select the PPD with the same name as your printer.

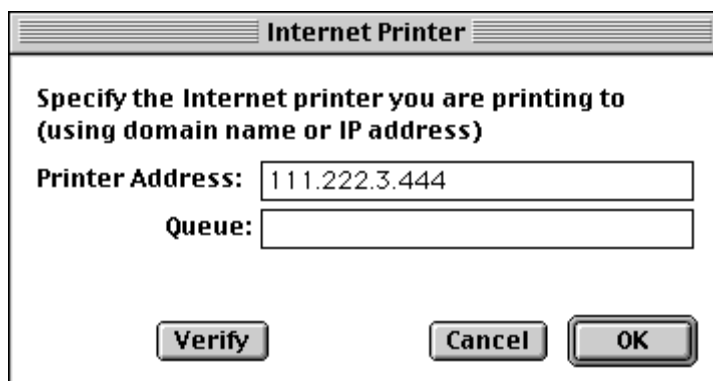


Click the "Select" button and you will see the desktop printer configuration dialog appear again:



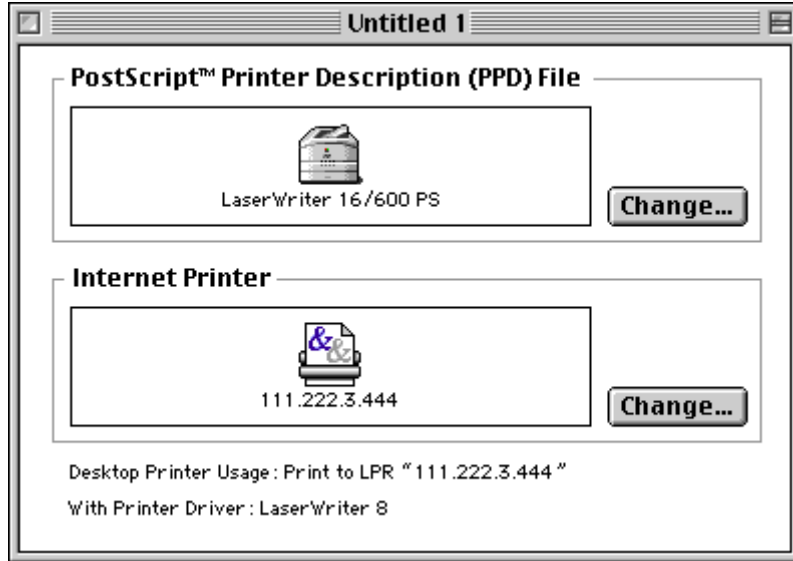


4. Under "Internet Printer" click "Change." The following dialog should appear:



- . Under "Printer Address," enter either the name (e.g., laserwriter.acme.com) or the IP address (111.222.3.444) for the printer. (The domain name or IP address should be the same as the one you previously set up, as described in Palomar's [Setting Printer IP Addresses](#) page). A Queue name is not needed for direct printing to a TCP/IP printer; it is only used when using a UNIX print spooler.
  - a. Click Verify to verify the printer's location. If a printer is found to exist at the specified IP address, a message stating that a printer exists at the specified location appears at the bottom left-hand corner of the screen; if this message does not appear, then correct the printer address.
  - b. Click OK.

5. The status dialog should look something like this:



6. Select Save under the File menu to create a desktop printer. Select a name for the desktop printer. A new printer icon should appear on the desktop. Verify that the configuration works by dragging a printable document onto the new desktop printer.

# Connectivity - Appendix C

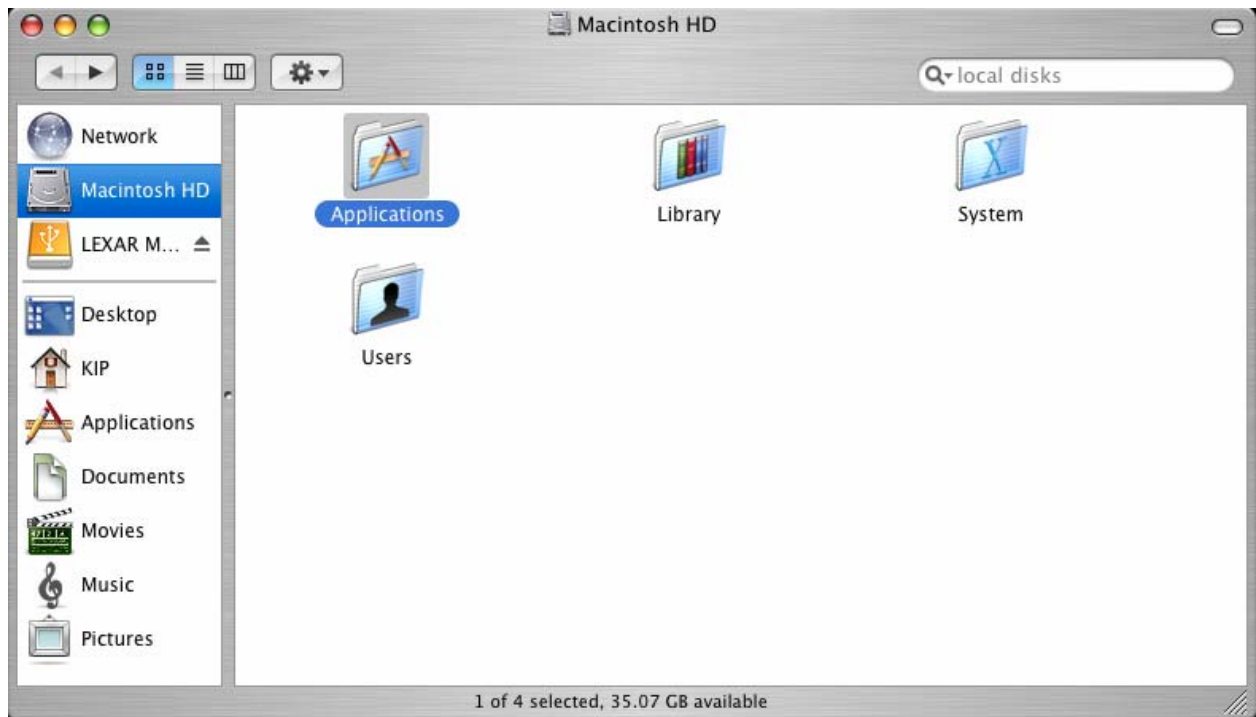
## Configuring a TCP/IP Printer in Macintosh OS X

The KIP IPS can be connected to Macintosh systems through TCP/IP. Macintosh allows for this by configuring a desktop printer to point to the KIP IPS. The Following steps note the procedure for setting up a Macintosh system for TCP/IP printing. These steps apply to **Macintosh OS X**:

1. On the desktop open the Mac hard drive



2. Select the “Applications” folder



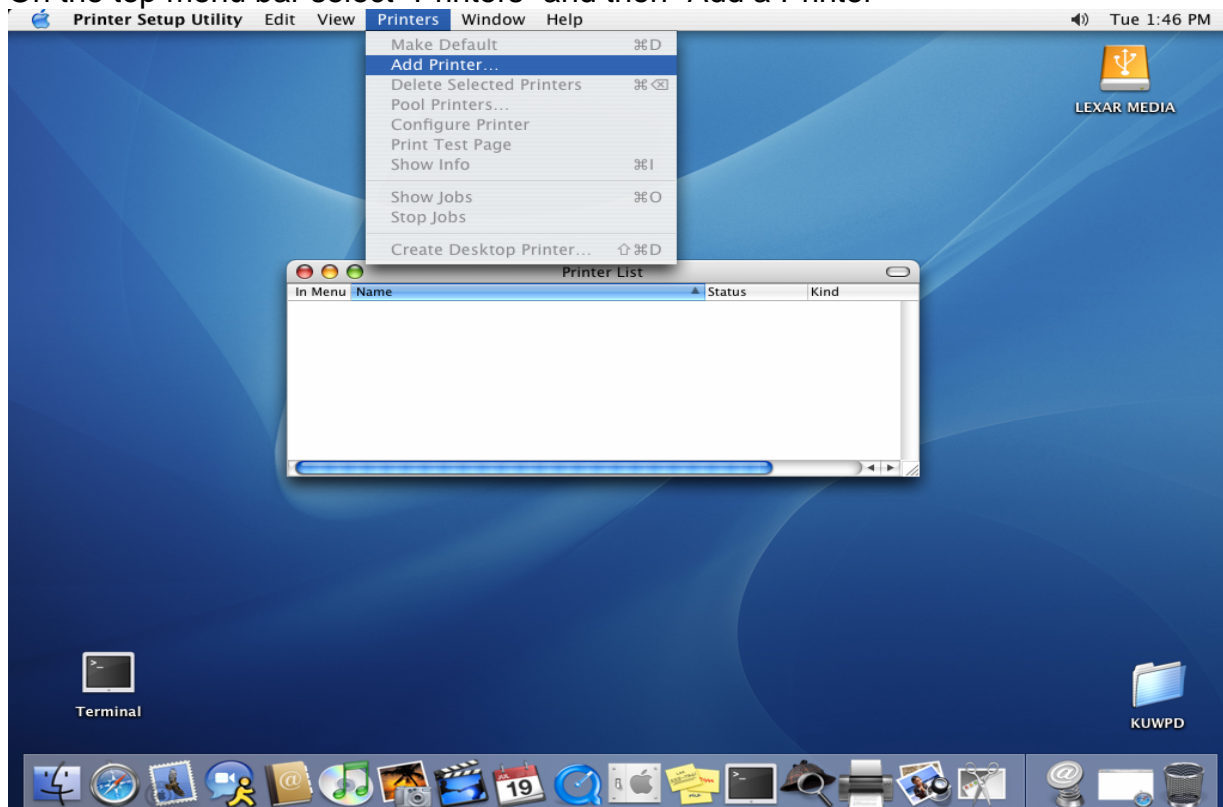
3. Select the “Utilities” folder



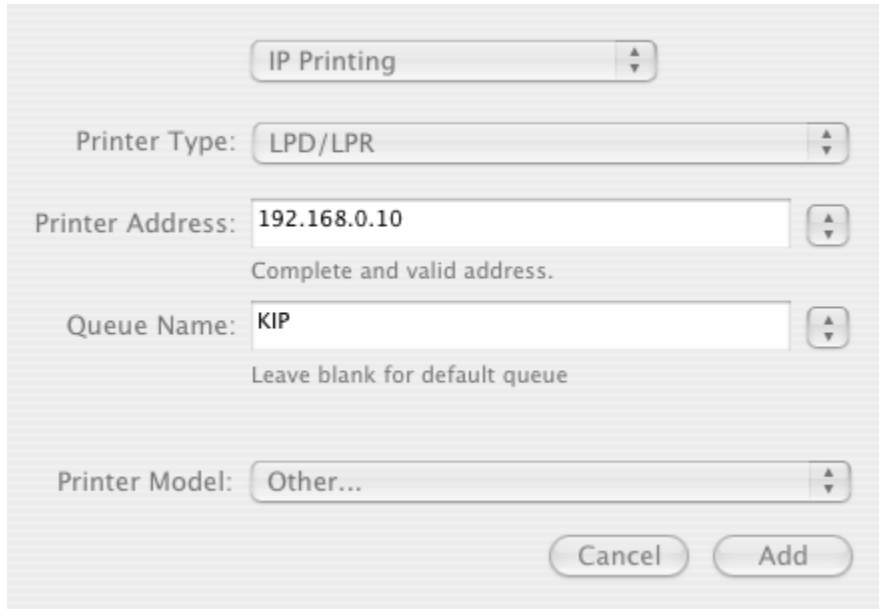
4. Find the “Printer Setup Utility”



5. On the top menu bar select “Printers” and then “Add a Printer”



6. On the next screen you will need to configure the following items:
  - a. In the first pull down select "IP Printing"
  - b. In the second "Printer Type" pull down select LPD/LPR
  - c. In the third area "Printer Address" set this to your KIP printer IP Address
  - d. In the fourth area "Queue Name" set the queue name to KIP (this is the default Queue name)
  - e. In the fifth area "Printer Model" select "Other"

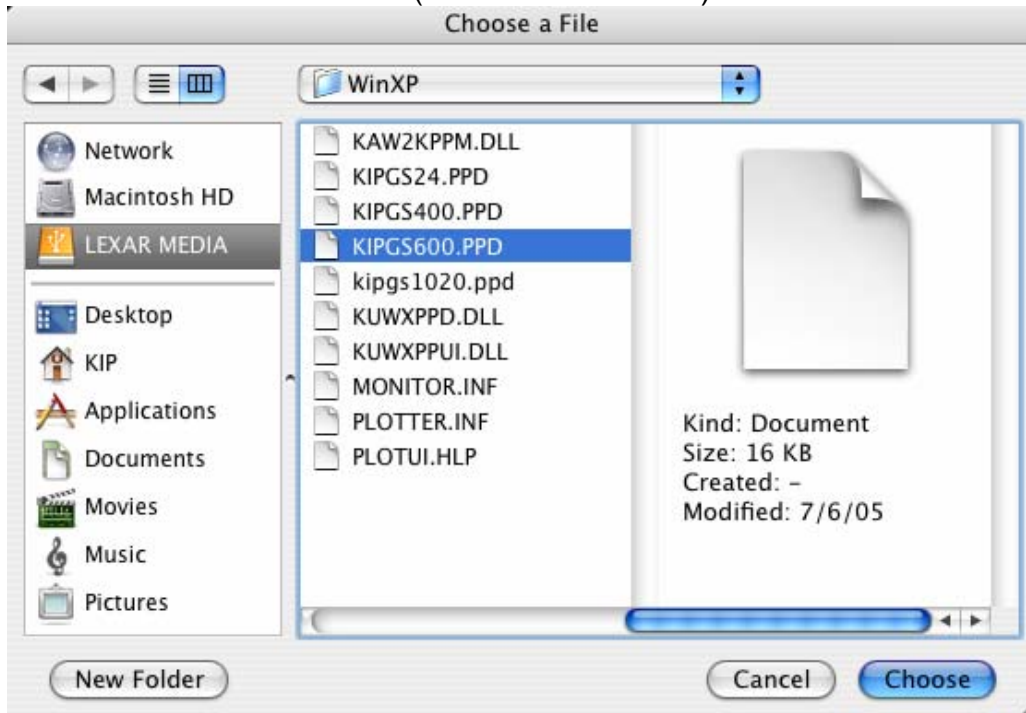


The screenshot shows a printer configuration window with the following fields and values:

- IP Printing** (selected in the first pull-down menu)
- Printer Type:** LPD/LPR
- Printer Address:** 192.168.0.10 (with a note: "Complete and valid address.")
- Queue Name:** KIP (with a note: "Leave blank for default queue")
- Printer Model:** Other...

Buttons at the bottom: Cancel, Add

7. Locate the desired .PPD file (ex. KIPGS600.PPD) select "choose"



8. Select “Add”

IP Printing

Printer Type: LPD/LPR

Printer Address: 192.168.0.10  
Complete and valid address.

Queue Name: KIP  
Leave blank for default queue

Printer Model: KIPGS600.PPD

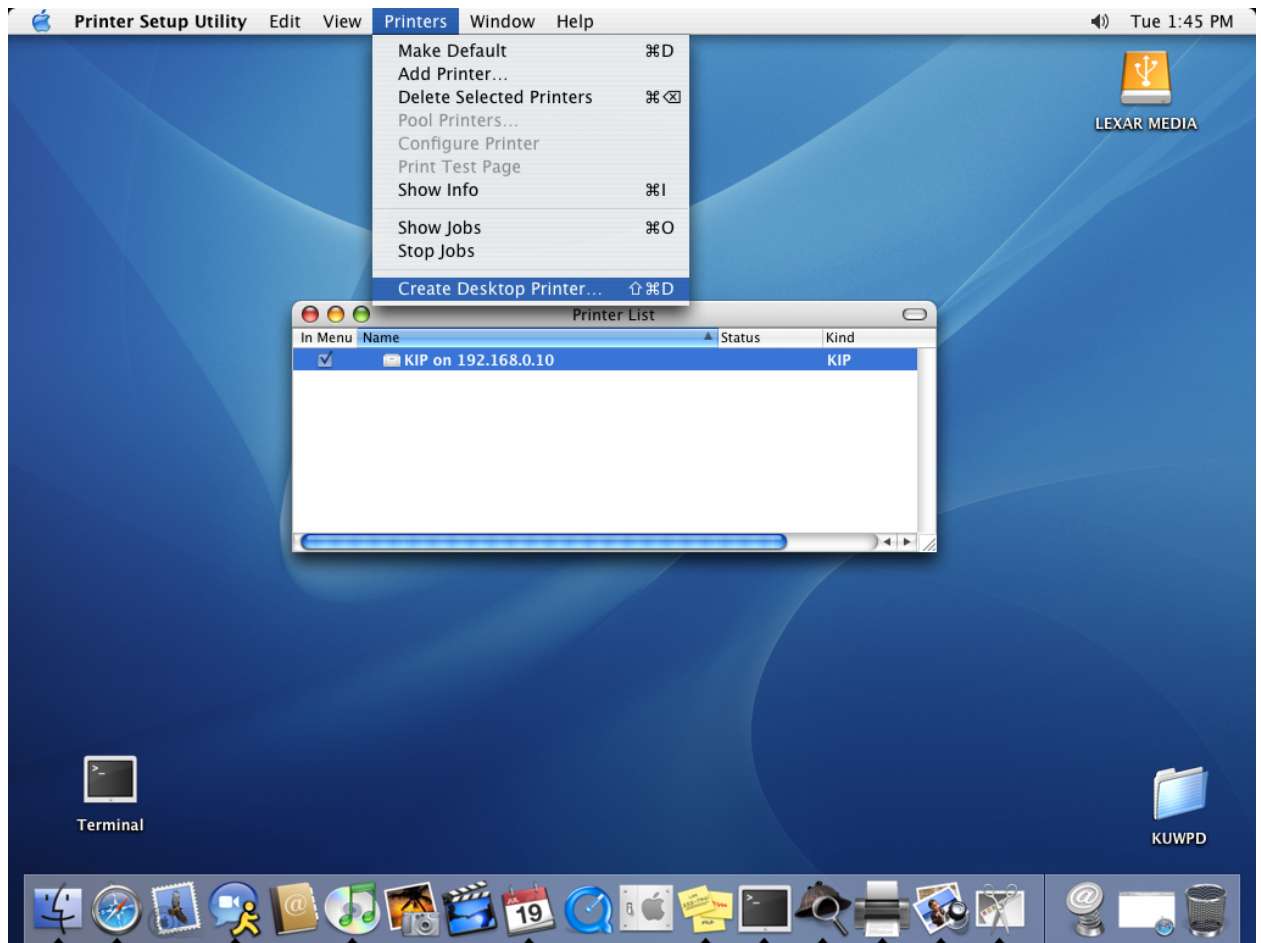
Cancel Add

9. The printer set up will be in the Printer List

In Menu	Name	Status	Kind
<input checked="" type="checkbox"/>	KIP on 192.168.0.10		KIP



10. In the menu bar on top, select Printers then select “Create Desktop Printer” from the pull down choices





# Connectivity - Appendix D

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## KIP IPS - Technical Detail

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Version 1.1

### Introduction

The following document contains technical detail and description related to the networkability of KIP printers, functionality of KIP printers in various network typologies, and concepts relating to client-server printing architecture. This document is intended for an audience familiar with core networking fundamentals and concepts, and an understanding of general network typologies and practices.

KIP Printers are considered to be *hardware network-connected devices* in the sense that participation within a given network typology requires a physical RJ-45 type connection in order to communicate with other network devices such as computer workstations, dedicated-servers, switching equipment, hubs, bridges, office printers, routers, and a variety of other network capable hardware.

KIP Printers are TCP/IP devices. TCP/IP is short for **T**ransmission **C**ontrol **P**rotocol / **I**nternet **P**rotocol. TCP/IP is a widely adopted networking protocol standard that is common place in many environments requiring network capable equipment, and network connectivity to company intranets, the larger internet, e-mail, wireless communications, shared printing devices, IP-telephony, and many other applications

Many other networking protocols exist at the same OSI level as TCP/IP (.e. IPX/SPX AppleTalk, NetBEUI) and at lower levels of the OSI model (BGP, RIP, OSPF, IGRP / EIGRP). TCP/IP can be traced to it's origin in 1969 to a research project funded by the United States Defense Advanced Research Projects Agency (DARPA). In 1983 TCP/IP was adopted as a standard by the DARPA as the primary vehicle for network connected devices, or hosts, and was considered a requirement for connected device implementation. Many companies have now built corporate TCP/IP networks that have grown to a point at which it could almost be considered a mainstream consumer technology.

TCP/IP has several different fundamental concepts and inner working that are well beyond the scope of this document. An excellent resource of TCP/IP study can be found at <http://www.faqs.org/rfcs/rfc1180.html>.

# Industry Standard Terminology

## Network Interface Card (NIC):

All KIP digital printers come equipped with an onboard **Network Interface Card** (NIC). The NIC houses a RJ-45 type connection that allows it to interface with other networking hardware via a *patch cable*. The onboard NIC is responsible for receiving, transmitting, encoding, and interpreting TCP/IP *segments* or *packets* present on a network.

## Operating System (OS):

All KIP digital printers are equipped with software driven **Operating System** that further handles encoded and decoded TCP/IP packets.

## Line Printer Remote / Line Printer Daemon (LPR/LPD):

All KIP digital printers are capable of communicating via a dedicated TCP port designed for printing called Line Printer Remote / Line Printer Daemon. LPR/LPD protocols are defined by RFC1179. The KIP LPD accepts data on TCP port 515. Whereas LPR/LPD is commonly found in UNIX based networks, it is also found and accepted on Windows based networks, and Novell based networks.

## Transmission Control Protocol / Internet Protocol:

KIP Printers are TCP/IP devices. TCP/IP is short for **Transmission Control Protocol / Internet Protocol**. TCP/IP is a widely adopted networking protocol standard that is common place in many environments requiring network capable equipment, and network connectivity to company intranets, the larger internet, e-mail, wireless communications, shared printing devices, IP-telephony, and many other applications.

## TCP Port:

A common name given to a numbered *connection* based communication channel across TCP/IP. Some facts regarding TCP connectivity include:

- TCP can establish a Connection
- TCP provides a stream of unlimited length
- TCP guarantees that as long as you have a connection data sent will arrive at the destination

## UDP Port:

A common name given to a *connectionless* based communication channel. Some facts regarding UDP connectivity include:

- UDP cannot establish connectivity
- UDP provides no guaranteed delivery or error checking
- UDP is faster for sending small amounts of data

# KIP Printer Network Components

KIP printers have several network components (both hardware and software based) that allow for TCP/IP printing functionality.

## KIPO Port (KIP0):

All KIP digital printers are capable of communicating via a dedicated TCP *port* for printing, and client communications. The KIP0 port accepts data on TCP port 8421 and responds on the *source port* initiated by a client and/or server. The KIP0 port is designed and maintained by KIP and is dedicated to function within a Microsoft Windows based computing environment. KIP Unified Windows Printer Drivers and KIP Request Software are fundamentally linked to the KIP0 port and provide seamless network connectivity to and from the KIP printer. The KIP0 port was designed for specific Wide-Format printing objectives not addressed in traditional *port monitors*.

## KAWPDFT.EXE:

KAWPDFT.EXE is a KIP designed executable used exclusively by KIP Request software to transfer printable data in the form of Job Tickets to the KIP Printer, and retrieve status indications from the KIP printer. KAWPDFT.EXE selects any unused upper level client TCP port ( > 1023 ) and attempts to connect to the KIP Printer's listening TCP port (8421).

## KIPSERVE.EXE:

KIPSERVE.EXE is a KIP designed executable that can best be described as a listening *service* or *listening daemon*. KIPSERVE resides within the OS of all KIP digital printers. KIPSERVE accepts data on TCP port 8421 from KIP Request software (via KAWPDFT.EXE) and/or from the port monitor component of the KIP Unified Windows Printer Driver (described below). As data arrives from either source, a KIP Job Ticket is generated for further print processing. KIPSERVE also delivers simple printer status across the source port in which it was initially connected from.

## KIP Unified Windows Printer Driver (KUWPD):

All KIP digital printers are provided with a Windows Printer Driver that can be used for various Windows application printing. The KUWPD is comprised of many components, some of which pertain to network functionality.

- KIP Port Monitor: The KIP port monitor establishes a default **KIPO** printer port on NT/2000/XP/2003 based workstations and servers. Multiple KIP ports can be created, but must have a unique name such as KIP1, KIP2, KIP3 and so on. The port monitor is responsible for transferring data from the Windows Client (be it a dedicated print server or workstation) to the KIP printer. This concept is fundamentally different from a *print spooler* because a print spooler is the component on Windows operating systems

that delivers print jobs from applications on a client computer to a print servers and/or hands off data to a *port monitor* for local or remote delivery. The KIP port monitor can operate in one of two modes depending on its network location: Server Mode and Controller Mode.

- **Server Mode:**

The KIP port monitor can operate in server mode. Server mode describes functionality where the KIP0 port is expected to *deliver* data to some host (KIP printer) other than the current port location. This destination can be specified by either an assigned IP address of a KIP printer or resolved host name of a KIP printer (i.e. DNS or WINS name resolved). This transport is accomplished via TCP port 8421 to a listening KIPSERVE.EXE on the remote host.

- **Controller Mode:**

The KIP port monitor can operate in controller mode. Controller mode describes functionality where the KIP0 port is expected to write out KIP Job Tickets on the host in which the port is installed. Network delivery methods are suspended in this mode. All KIP digital printers are factory delivered and equipped with a KIP port monitor in Controller Mode. This is essential for LPR based print delivery methods as it coordinates closely with LPD services also present within the operating system of KIP digital printers.

- Port Operations: Regardless of the port *mode* (Server vs. Controller), the KIP0 port is capable of functioning in *native mode* or *pass-through mode*. The native vs. pass-through concept can best be described as an auto-sensing of the method in which printable data has been presented to the KIP0 port monitor.

## **Native Mode vs. Pass-through Mode**

The KIP port monitor is capable of auto-sensing what type of printable data arrives and how to further handle the data for network transport. KIP port monitor is able to detect the *origin* of printable data based on an examination of certain bytes within file header information present in the print data stream. Based on this data type, the KIP port monitor dynamically operates in two possible transport modes: Native and Pass-through.

\* It is important to note that native mode and pass-through mode functions regardless of port locations Server Mode vs. Controller Mode described above.

- Native mode:

Native mode refers to printable data generated by the KUWPD rendering engine. Data arriving in this format has been rendered by the KUWPD exclusively by coordination between the Microsoft GDI engine and the driver components of KUWPD. Most applications will use the Window Print Manager functions in coordination with a printer driver to generate printable data for the desired network printer. A KIP Job ticket is thus generated and is said to be in **native mode** format. Data that has been determined to have not been generated by KUWPD causes the KIP port monitor to operate in Pass-through mode.

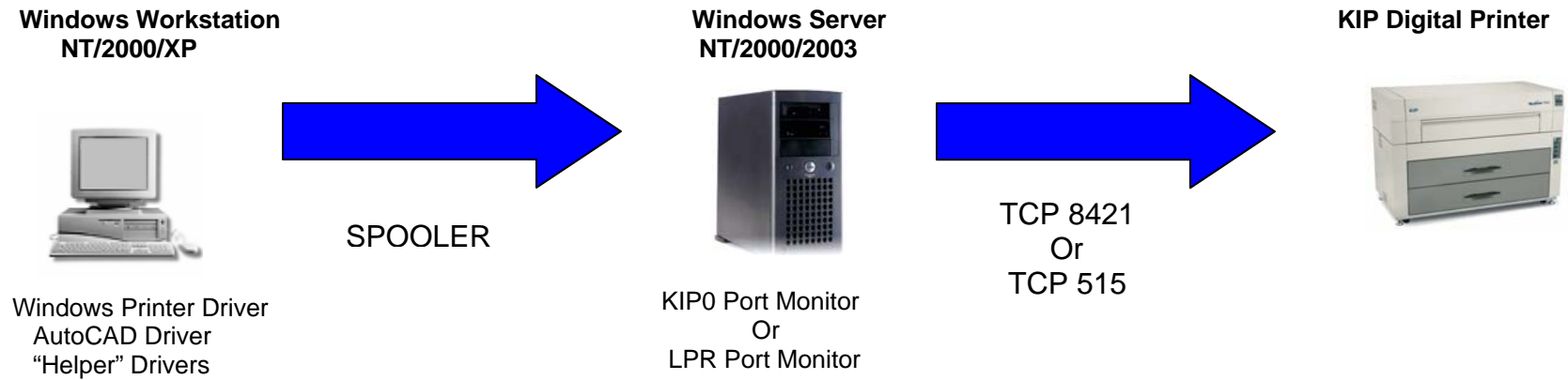
- Pass-through mode:

Pass-through mode refers to printable data **not** generated by the KUWPD rendering engine. Data arriving in this format is assumed to be *print ready* and has not been directly rendered by the KUWPD engine. Many CAD specific applications have the ability to render printable data languages directly within the design application, bypassing the GDI and driver functionality of a standard Windows based application and/or printing methodology. These types of applications generally make use of *helper drivers* and/or *internal drivers* to prepare printable data before any GDI or Windows based driver mechanism comes into direct contact with the print data. Examples of such Windows applications that have internal rendering capability are, but are not limited to, AutoDesk AutoCAD products (via dedicated HDI print drivers), Bentley MicroStation Products, Dassault Catia based products, Unigraphics based products, SDRC Ideas based products. These types of CAD applications behave in a way similar to UNIX based printing architecture in that data is forwarded to a port monitor, such as KIP port monitor, for the sole purpose of transporting printable data to a network printer, thus *passing-through or bypassing* the Microsoft GDI and printer driver rendering functions. A KIP Job ticket is thus generated and is said to be in **pass-through** format.

\* It is important to note that Pass-through mode is always employed when KIP port monitor accepts data from a UNIX based clients. UNIX applications generate printable data without the use of Microsoft GDI functionality, and primarily use LP/LPR/LPD type transport.



# MICROSOFT NETWORK CONNECTIVITY



# NOVELL NETWORK CONNECTIVITY

**Windows Workstation  
NT/2000/XP**



Windows Printer Driver  
AutoCAD Driver  
"Helper" Drivers



SPOOLER

**Netware Server  
5.X / 6.X**



NDPS Gateway  
LPR over IP



TCP 515

**KIP Digital Printer**





# UNIX NETWORK CONNECTIVITY

**Unix CAD Workstation**  
**Sun/HP/SGI/IRIX**



Catia V4 GL/2 output  
Ideas GL/2 output  
Unigraphics GL/2 output  
TIFF output  
CALS output  
Others , , ,



LP/LPR

**Unix Server**  
**5.X / 6.X**



LP/LPR/LPD



TCP 515

**KIP Digital Printer**



# KIP Printing Applications Guide



KIP Request is an easy-to-use application that provides remote users with an efficient method of printing single documents or collated sets through the network.



KIP PrintNet is a web browser based printing utility compatible with standard web browsers which shares a uniform interface with KIP Request software.



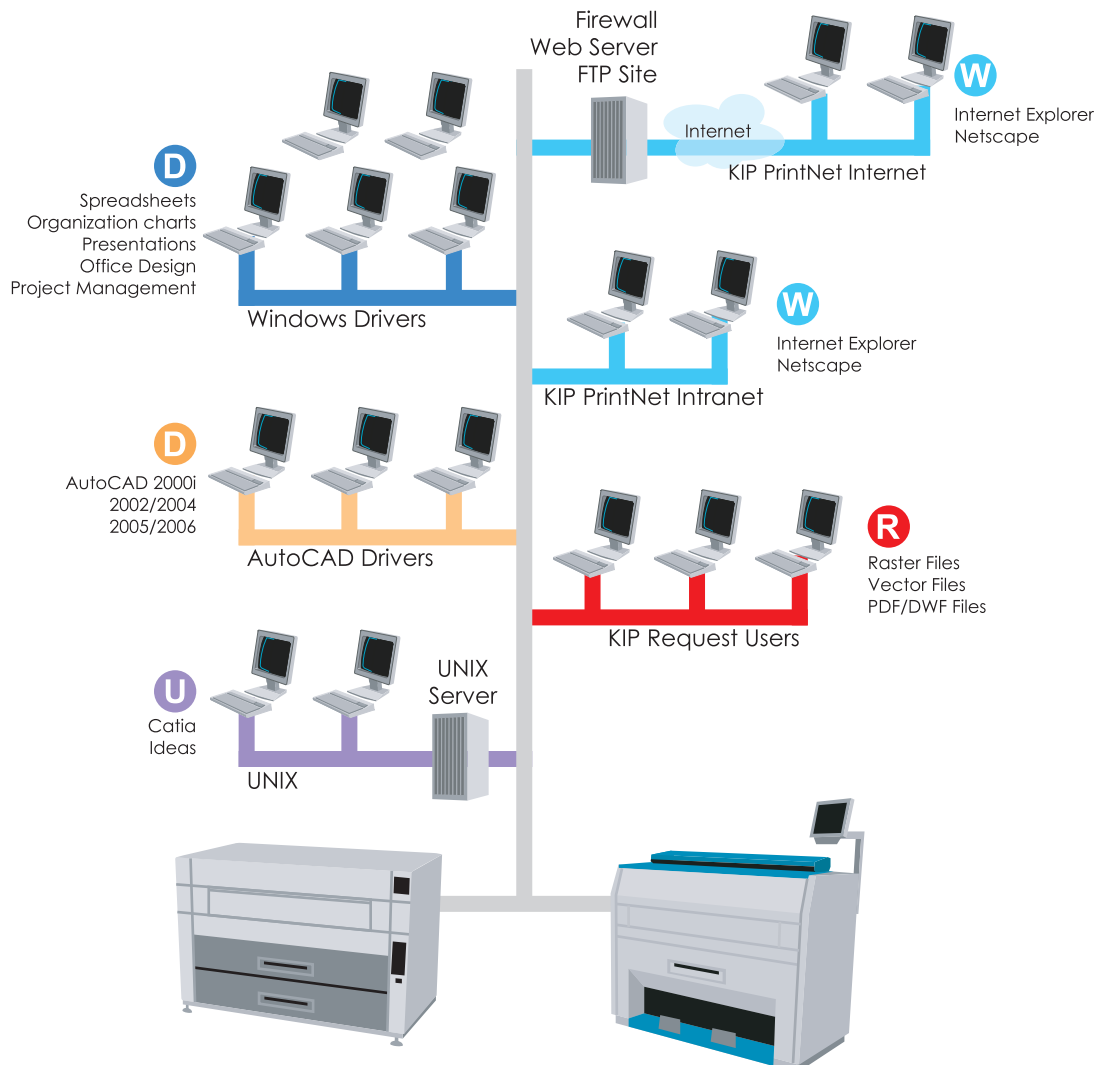
KIP AutoCAD drivers enable printing directly from AutoCAD® technical design applications.



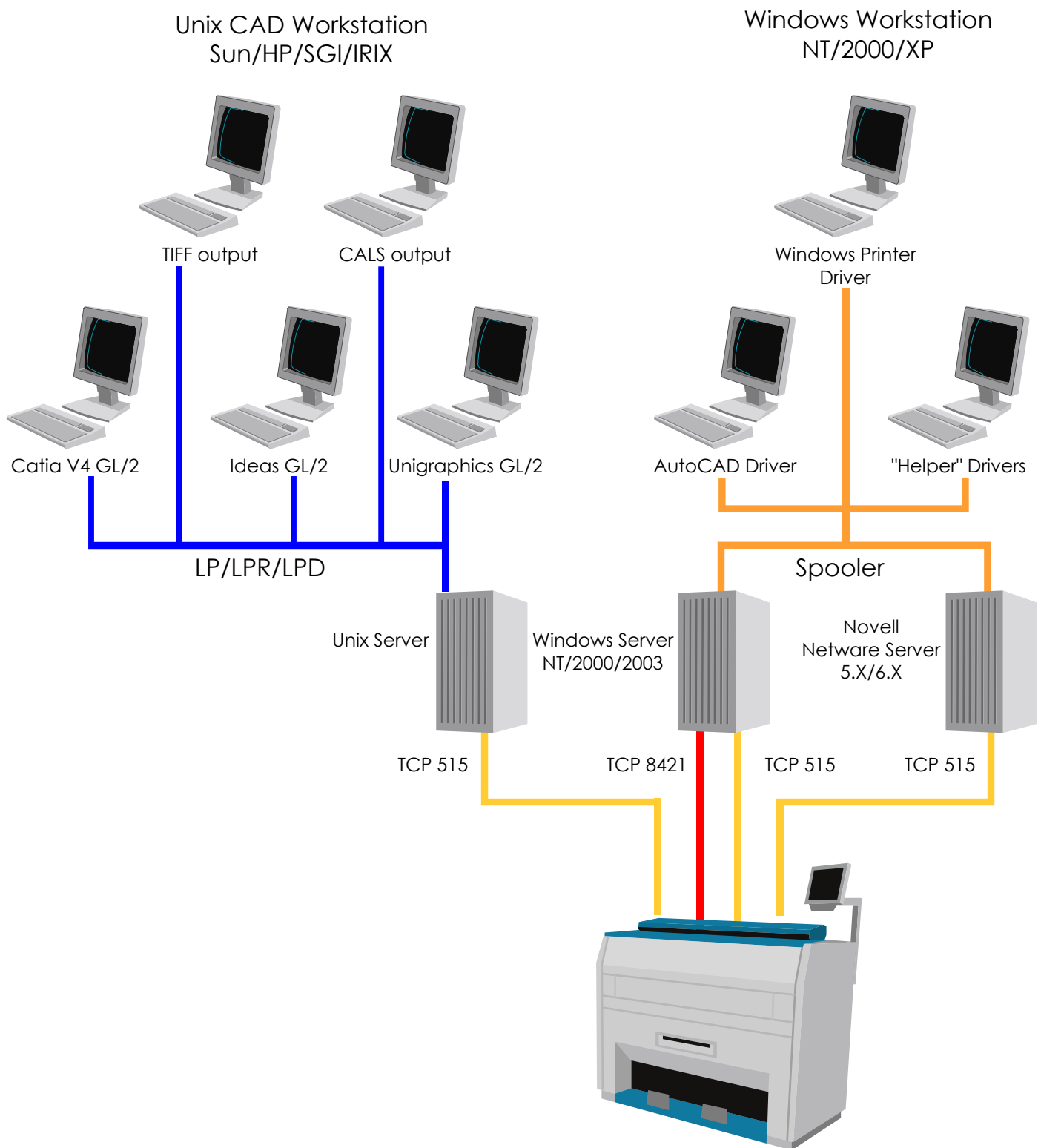
The KIP Windows driver enables printing directly from all types of Windows® based applications.



Standard TCP/IP connectivity ensures easy integration with UNIX based software applications.



# KIP 3000 Network Connectivity



# KIP Network Connectivity

